1: Bowen-Jones et al. K-5 (1955-1958) 1961
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ESSENTIAL STATISTICS

131 The Maltese Islands - Land Area 121.850 sq. miles, Population 323,667[1].
161 Malta - Land Area 94.878 sq. miles, Population 296,093[1].
Gozo and Comino - Land Area 26.974 sq. miles, Population 27,659[1].

162 A. OCCUPATIONAL STRUCTURE OF THE POPULATION[2]

463 (i)	Civil Government	17,050
	Service Departments	22,480
(ii)	Agriculture, Fishing and Quarrying	9,130
	Manufacturing	9,030
	Construction	7,220
(iii)	Wholesale and Retail Trades	10,920
	Transport and Communications	3,850
	Insurance, Banking, etc.	550
	Gas Service	20
(iv)	Recreation and Personal Services	7,250
	Community and Business Services	1,140
	Total	88,710

433 B. PRODUCTION[1]

Gross Domestic Product 1957	£ m.	36.1
Gross Industrial Production 1957	"	10.036
Gross Agricultural Product 1957	"	5.008

439 C. TRADE[3]

(i) Commodities (value in £ m)

	Imports	Exports	Re-exports
Food, Drink, Tobacco	9.411	.547	.549
Raw materials and materials mainly unmanufactured	3.227	.312	1.307
Articles wholly or mainly manufactured	13.215	.132	.404
Miscellaneous and unspecified	2.863	.005	.339
Bullion and Specie	.104	-	-
	28.820	.995	2.600

(ii) Direction of Trade (%)

	Imports	Exports
Sterling Area	49.3	41.1
Dollar Area	7.2	.8
O.E.E.C.	33.5	10.4
Other	10.0	2.1
Ships and Aircraft Stores	-	45.6
	100	100

(iii) Balance of Trade

	Imports	Exports & Re-exports	Negative Balance
		Million £	
1949	15.312	1.038	14.274
1954	20.407	2.879	17.528
1958	28.820	3.595	25.225

(Since 1948 the adverse trade balance has increased by an average of 4.7% per annum)

D. SEABORNE AND AIRBORNE TRAFFIC 1958[3].

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	Total - Calling - British				Passengers (No.)			Freight (Tons)	
	Number	Tonnage	Number	Tonnage	In	Out	Transit	In	Out
Steam Vessels	1,792	2,008,803	458	1,346,925)	9,852	10,745	35,175	548,626	54,937
Sailing Vessels	267	22,836	15	122)					
Aircraft	3,283	91,661	3,110	87,897	30,232	31,501	38,648	588	238

E. AGRICULTURE[4]

		Acreage	Yield-tons
(i)	Total Area cultivated	44,235	
(ii)	Wheat	5,000	3,000
	Barley and Mixta	4,083	2,158
	Forages (inc. sulla, vetches & Ferrana)	11,824	3,855
	Broad Beans	1,250	500
(iii)	Potatoes - Spring crop	4,763*	15,420
		(1957-6,000)	
	- Winter crop	1,228	7,360
	Melons	1 837	1,939
	Onions	1,263	3,389
	Tomatoes	1,012	8,588
	Other vegetables	5,000	16,198
(iv)	Grapes	5,000	6,000**
	Citrus	160	500**
	Other fruit	1,000	6,000**
(v)	Cotton	3	1
		(1956-187)	
	Cumin Seed	8	2
		(1952-518)	

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* Note. Abnormally low.
** Note. Acreage and yield of treecrops in particular should be treated as indicating only orders of magnitude.

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(vi)	Livestock (Enumeration)		
	Horses, Donkeys and Mules	6,575	
	Goats	36,944 (1950-50,150)	
	Sheep	15,011 (1950-20,148)	
	Imported Store bulls	3,081	
	Milk cows	4,178 (1950- 3,861)	
	Other cattle	2,466	
	Swine	16,362	
(vii)	Number of holdings		12,192
	Number of mechanized implements	- 2 wheeled	700
		- 3 & 4 wheeled	54
		- tracked	25
		- milking machines	7
		- threshers	23

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1: Bowen-Jones et al. K-5 (1955-1958) 1961
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8. Economy and Trade

In any schematic division of history into periods there must be dangers and difficulties. Nevertheless, some themes of significance to our present study, naturally as well as for reasons of convenience, are best treated in this way. It is impossible to be precise about the date of birth of modern Malta in that different land marks might well be used in pursuing different lines of thought. Thus, constitutionally the year 1921 is of most significance, while the Royal Commission of 1911 is in some ways an economic obsequy for nineteenth-century Malta. In the sections that follow, therefore, arguments cannot be chronologically in step. Moreover, this, our last period, is the most well-documented of all and the irregularity of coverage most considerable. Some of the arguments earlier developed need little further emphasis in that some conditions and attitudes firmly established by the beginning of the twentieth century need merely to have their survival confirmed and readers referred to relevant material. Henceforward, therefore, our treatment can legitimately be more selective.

This period of Modern British Malta must be further subdivided. The first phase drew slowly and uneasily to a close during our period of research. It was formally ended by the suspension of the constitution in 1958. The new constitutional proposals of 1960 mark the official beginning of a second phase. The interregnum was the period of the transference of the Naval Dockyard to a civilian firm of ship repairers. In that we attach the greatest importance to the study of the fundamental infrastructure on which Maltese life has and will be based, most of the following analysis is concerned with the first phase - the climacteric of British rule in Malta. Our comment on more recent happenings is therefore deliberately restricted.

The Census of 1912 noted that in the decennial period 1901-11 ... 'productiveness has not risen in proportion to the increase of the population'.

The recorded Civil population in 1911 was 211,564. While in 1901, 28 per cent. of the female population was gainfully occupied, ten years later the proportion had fallen to 20 per cent. Henceforth male employment alone was of significance. The male labour force, which for analytical purposes was regarded as excluding only the age-group below five years of age, totalled 92,529. Of these almost 12,000 were engaged in agriculture, 19,489 in commerce and transport, and over 21,000 enumerated as having 'industrial' occupations. 31,385 were returned as unoccupied or unproductive.

The opening quotation is strictly an actuarial statement based on demographic facts. Behind the Census figures however we may perceive, by using various pieces of evidence, an economic basis for its sombreness. By comparing details of the 1911 enumeration with those for 1921, the first year in which unemployment within occupational groups was recorded, we may deduce that some 10 per cent. of the able male labour force was in fact without employment during the earlier year. By 1907, 10 per cent. of the ships cleared from Malta left in ballast (1). Between 1901 and 1911, the numbers of farmers and farmers' relatives assisting on the land increased by 3,000 and the number of labourers fell by 1,259 (2). Only once between 1906 and 1914, in 1908-09, did Government Revenue not show a deficit (3). In 1905, 9,175 men were employed in the Naval Establishments but this had fallen to 5,181 in 1906 (4). Many such facts could be quoted to prove the existence of an economic depression in Malta during the years following 1906, a situation which induced the setting up in 1911 of a Royal Commission to consider the financial situation. The array of evidence does more than this, it also shows that this was no simple secular trend but a sign of uneasy adjustment to new circumstances, an adjustment that is still in progress. This is why the Report of the 1911 Commission is of more than contemporary importance (5) and why its study is essential to any serious consideration of Maltese problems.

1: Bowen-Jones et al. K-5 (1955-1958) 1961
EZ6 Malta EZ6

433 458 The main relevant conclusion was unmistakably ominous: 'Government expenditure has more than made up for that of the Knights, and has diverted more of the labour of the population to the service, direct or indirect, of the foreign government which applied it to purposes entirely Imperial and unconnected with the special interests of the colony. Doubtless this expenditure has led to immediate prosperity... but the basis of this prosperity is artificial and precarious' (6). It is possible to argue the degree of validity of the third premiss of the first clause but the general truth is undeniable. This general picture is so clear that in this particular chapter attention will be focussed only on some aspects of the Maltese economy as it has developed during the last 50 years.

43 The changing character of Maltese Trade is well evidenced in the annual reports of the Customs and Port Department. Before World War I, Malta was still of some importance in Mediterranean transit trade, partfcularly for goods destined for North African and Levant ports. Between 1910 and 1922 the annual average weight of such merchandise handled was 17,000 tons (7). This activity almost disappeared during hostilities and after a short post-war boom settled down at a new low level handling only some 3,000 tons of merchandise. In part this was due to the elimination of the important German and Austrian connection which, in a Report published in 1919 (8), was the subject of much hostile Maltese comment. More important was the fact that the gap thus left was not filled by other foreign or local interests. The Maltese writers of the 1919 Report were not able to obtain their desire 'to have a company formed by a few merchants, who would thus teach Maltese capitalists that the investment of moneys in industries and especially in shipping is more profitable and better for the Islands and for the capitalists themselves, than the investment in doubtful securities or in reckless speculation'. The fundamental difficulties of expanding port [504] activity have remained. Malta, for all the grandiloquence of the name 'Grand Harbour', has until very recently possessed but poor physical facilities for handling shipping. All vessels of over 2,000 tons have had to be worked by lighter, and civil repair facilities as well as warehousing have been extremely limited. In that the needs of the Fleet have been paramount this is understandable; the consequences have been deplorable. The absence of enthusiasm for [454] local investment of Maltese capital has been equally inhibiting. There survives, even intensified during the 1930's, a traditional feeling of insecurity which was succinctly noted by a banker giving evidence before the 1911 Commission: 'There is plenty of money in the Island... there is not much trust, I think' (9). Even now, while the rate of saving in Malta is very high - c. 14 per cent. of total personal income, too large a proportion of the savings are invested abroad - some £70 millions. Given this basic insecurity, which still appears in conversations with business men and which is so deeply rooted as to be very difficult to remove, development is difficult. Moreover, since the Maltese for an island [228] people are singularly non-maritime in character, and, in conditions no more difficult than in many other parts of the Mediterranean, have almost ignored the fishery industry (10), there exists no traditional basis for marine affairs. In these circumstances the value of the handing over of the Naval base to British civilian firms, and the policy of attracting foreign (mainly British) manufacturing concerns, thus making available both facilities and most of the capital, is on economic grounds indisputable.

439 459 One other aspect of port and trading activities must be examined, the nature and balance of imports and exports. The changing character of world trade in the first place has vitally affected the nature of Malta's entrepôt activity. By 1956, the value of re-exports had reached over two and a half million pounds, of which one and a half million represented mineral fuels and lubricants, mainly aviation spirit and turbine fuel (11). This is still the pattern today. Of Malta's transit trade in re-exports, by far the biggest proportion is concerned with supplying the Garrison in its new and more mobile form. The imbalance between retained imports and domestic exports remains essentially similar to that observed very much earlier and is best examined in conjunction with other economic elements.

1: Bowen-Jones et al. K-5 (1955-1958) 1961
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For brevity's sake it must suffice to say here that, apart from the obvious effects of World War II, the Maltese economy during the last 50 years has developed along more or less uniform general lines. Trade statistics began to be compiled properly in 1909-10. By 1918, visible exports paid for only 10 per cent. of all imports while by 1956 this proportion had dropped to 5 per cent. For our present purpose the most recent specifically economic Report utilising normally unpublished source material, that of Balogh and Seers (13), may be used as a basis for discussion. Statistics for the year 1953-54 contained therein and in the original source material are here re-assembled and re-arranged in the same combinations used in Chapter V A, i.e. Negotiable Income or External Economic Balance, Internal Revenue and National Product. By no means all the facts are available and some of the elements in the computation are open to question, but this particular presentation has been adopted to bring out significant points of direct relevance to our work.

The first element, that of External Balance may be presented in tabular form thus:-

Table 31. External economic balance. 1954.

A. Negotiable Income - originating externally.		
(i) Services pay	£8.5	millions
(of which dockyard)	(3.6	")
(ii) Direct expenditure by Services	2.2	"
(iii) Estimated spending by non-Maltese Service personnel	6.0	"
	£14.7	"
(iv) Imperial Grants	3.0	"
	£17.7	"
B. Negotiable Income - originating internally.		
(i) Merchandise exports	£1.5	millions
(ii) Invisible exports	2.9	"
	£4.4	"
C. Negotiable Income - Grand Total	£22.1	millions
D. Expenditure on Imports.		
(i) Merchandise imports	£18.6	millions
(ii) Invisible imports	1.9	"
	£20.5	"

The most obvious characteristic of Malta's economy in its external relationship is its amazing dependence for Negotiable Income, i.e. convertible wealth available for paying for imports, on factors outside domestic control.

In detail various significant points emerge. While part of this income resulted from the provision of industrial and labour services - A (i) and (ii), about 40 per cent. came through retail and domestic services to the Garrison - A (iii). Statistically, this is an item impossible to measure precisely, and in so far as it is a residual item a further question arises, to wit, how far may it be an over-estimate concealing an unrecorded inflow of foreign wealth through hidden channels to the civil population. In Sierra Leone, periodic upsurges of

434 471 by British actions) *ipso facto* suggests a decline in that value. Until recently, as suggested elsewhere, domination by a new metropolitan power has implied domination by a more enterprising and a wealthier power. The inevitability of this process has become held so strongly almost as an article of faith by some Maltese that to suggest that it may now come to an end may be regarded as heretical. There is, in fact, every reason to suppose that Malta's locational value has now become so marginally attractive as to render even more economically dubious foreign investment in the limited and difficult sectors available for its application. Without such foreign capital in large quantities, revenue will neither be available for investment in production and welfare nor for continuing existence. The internal as well as external economic demands of the situation are therefore for the seizing of all opportunities to attract investment rather than for historically impossible attempts to preserve an economic *status quo*. Further, it is obviously essential that agriculture as the only sector in which capital and labour can be deployed on domestically controlled natural resources, must be transformed from hitherto the most neglected into one of the most important and potentially fruitful elements in the Islands' life.

Finally, in this general section, a consideration of the National Product serves to put the economic situation into perspective. The salient facts are these:-

433 434

Table 33. National product 1954.

A. Wages and Salaries.		
(i) Service Departments	£6.7	millions
(ii) Administration	3.5	"
(iii) Other	5.8	"
	£16.0	"
B. Incomes.		
(i) Farmers and Fishermen	£1.3	millions
(ii) Government Property	1.2	"
(iii) Private Receipts of Interest and Rents	2.8	"
	£5.3	"
C. Profits of Industrial and Commercial Enterprises	£6.0	millions
D. Net Indirect Taxation	£3.6	millions
Grand Total	£30.9	millions

Balogh and Sears in their interim report on economic conditions (14) computed that the total value of goods and services bought in 1954 amounted to over £51,400,000. Of this some £20,500,000 represented imports, leaving the total given in Table 33. More recent material, e.g. the 1955 Census of Production (15) which became available in 1958, would suggest the need for slight emendation of some items, particularly item C in Table 33. Further upward amendment to item B (i) is needed to cover that considerable part of agricultural production which, as field observation shows, never appears in mensurable channels. Balogh's conclusion however remains absolutely valid (16): 'In the last resort nearly all the income and employment on the Island(s) are derived from the U.K. Government'. He does however go on to say that (17): 'This unbalanced

economic structure due to a British policy which in the past was almost entirely based on her own military needs constitutes an unanswerable case for adequate help to the Islands in their present effort ' find alternative sources of employment'. From the factual point of view this last statement needs qualification, while in so far as it is representative in a mild way of an attitude which more violently would throw the whole onus of guaranteeing the future on to Britain it is dangerous. In the first place, as the various studies in this book indicate, Maltese economic dependence on the value placed on the islands by non-Maltese communities, necessarily in the light of their own needs, is of great antiquity. The only way in which Britain could have refrained from increasing this dependence would have been by positively encouraging social and economic stagnation outside a small Garrison pale. This leads to the second point that the indigenous population rapidly seized opportunities to rise above the low level of life possible on local non-locational resources. The development of the present economy is as much due to natural indigenous economic desires as to outside pressure. Thirdly, as noted in the Introduction, recent confusion of attitudes towards political subordination and social welfare as well as to production, has produced a general realisation of the problem, without producing any clear solutions. Indeed the implications of the suggested solutions have been met with natural but rather irrational repugnance. Finally, we may observe that the use of phrases such as 'alternative sources of employment' when what is really meant is 'alternative sources of wealth', must always darken counsel. Once again the need for realistic appraisal of natural resources becomes manifest.

The most up-to-date picture of the Islands' general economy may be derived from the 1958 Departmental reports published late in 1959 and 1960. In December 1958 the total population numbered almost 324,000, that of Malta having increased by 5 per cent. since 1948 in spite of emigration while that of Gozo declined by 0.4 per cent. as a result of emigration. The internal shifts of population that occurred during and after World War II have virtually ceased. The gainfully occupied population totalled 88,710, and less than 5 per cent. of the total male population aged 14-64 were not productively occupied. 25.4 per cent. of male workers were Government employees and paid out of Government revenue. 33.5 per cent. of the employed population worked in or for the Service Departments, deriving their income directly or indirectly from the Imperial Government. Thus, only 42 per cent. of the working population is employed in normal civilian activity and, as already noted, most of this activity is generated by indirect Imperial expenditure. In 1958 the gross national product had increased to £42.4 millions but the visible trade deficit also rose to £25.2 millions.

To conclude this section we turn by way of illustration from the general to the particular, to a brief consideration of two of the facets of Maltese life investigated by our team of research workers.

Her Majesty's Dockyard in Malta, for so long the crux of British interest in the Islands, has recently been transferred to civilian interests amidst a welter of differing reactions. Thanks to the co-operation of the Admiral Superintendent and his staff in March 1957 we have been able to analyse the main characteristics of the Dockyard, and present here a few of the relevant findings. At that time, 12,572 Maltese workers were directly employed in the Dockyard, almost exactly the same number as the total of farmholders, or the total engaged in 'industrial' occupations, i.e. mining, quarrying, manufacturing and construction. In the Dockyard there were four departments, those of the Captain, Construction, Engineering, and Electrical Engineering, which were regarded as 'professional departments'. These employed 59 per cent. of the total Dockyard employees, most of this proportion in skilled trades. In the remaining 11 departments, a considerable number of technicians and craftsmen were also employed as well as upper-grade administrative and financial personnel. The Dockyard thus contained the largest pool of skilled labour in the Islands and provided the most important training ground, because, of the roughly equal numbers in civil 'industrial' employment, a very much larger proportion was unskilled, particularly in the building industry (18).

1: Bowen-Jones et al. K-5 (1955-1958) 1961
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D. Economic and Commercial Characteristics

In 1956, Surridge (1) in a note on Co-operatives in Malta, endorsed the F.A.O. statement (2) that 'real progress in the co-operative field will be impossible so long as the essential connection between credit facilities and marketing remains unrecognised'. 241 433

Subsistence farming is not now practised in the Maltese Islands and all farmers are to a large extent controlled in their productive use of land by commercial markets. The application of capital and techniques to the land is much more than the simple provision of cheap credit.

Environmental conditions necessitate the continued and intensive use of hand labour in order to maintain in existence the artificially made fields and in order to utilise the maximum area of land. Therefore large-scale capital application is restricted to provision of better water supplies and similar public works projects. What is needed is the small scale use of capital in crops and livestock experimentation and for backing efforts in the export markets. Capital provision for land purchase should not be made until cultivators are less likely to indulge in speculative 'landgrabbing' which would result in greater problems of fragmentation, etc.

The amount of hidden capital in the countryside must be very considerable. Estimates that 80 per cent. of Malta's National Income is derived directly and indirectly from the Defence Departments cannot take into account all the gross real income in kind of the countryside - real income which never appears long enough to be measured. Present expenditure on improved equipment and better breeds of plant and livestock as well as spectacular efforts such as the building of Mosta Church go to show that, given incentive and faith in the future, the rural communities can and will deploy some considerable hidden reserves. Before any such capital will be applied, some compulsive force must operate on the farmers. [454] [434]

For centuries past, production has been largely for subsistence except for cotton and cumin seed, both exported to other Mediterranean countries. From the sixteenth century onward, urbanisation slowly created a significantly sized indigenous market and, with the disappearance of the trade in cotton during the nineteenth century, the home market became completely dominant. Some 70 years ago, potatoes became profitably exportable, while at the same time rapid urbanisation increased the size and wealth of the home market. As already noted, the domestic market for milk is of very recent origin, while export possibilities for crops other than potatoes are now slowly being realised.

Until World War II, marketing of produce was organised almost entirely by licensed but uncontrolled middlemen - the *pilkali* - who collected or accepted small lots, offered them for sale to wholesalers or retailers, and then paid the farmers the negotiated price less commission. (The details of organisation are well described in the 1911-12 Royal Commission Report (3).) During World War II, 'the evolution of Internal Marketing made a great stride forward during the exigency . . . (4)'. This statement really means that controls were imposed on prices and marketing, controls which have basically survived to the present day. As the economics of production have become more confused with welfare policies, so the complexity of the situation has increased. All that we can do here is to sketch and illustrate the nature of this complexity. 241 441 435

The first factor to be reckoned with is that cultivators in no case know their costs of production. They have some general idea of whether a proposed price is unprofitable or not but this is not necessarily trustworthy. Secondly, while the fodder crops are not very perishable, the vegetable and fruit products which find their way out of the rural economy into Maltese markets are extremely so. While the market for such produce in Malta is not a very selective one, this on the whole has the effect of encouraging the sending to market of produce which is very liable to deterioration. In the markets, therefore, any produce surplus to clear requirements is virtually valueless. One complaint concerning the

was that gross financial loss totalled £124,000 representing an equivalent subsidy to consumers of M.M.U. products, while, if profits on imports were subtracted the figure would rise to over £200,000. The commercial aspect of milk marketing is thus completely artificial and dominated by welfare policies. Price policy, even so, has not been powerful enough to even out the immense seasonal fluctuation in production of goats' milk, roughly half the total, and the smaller but still considerable fluctuation of cows' milk.

Meat production is rather more crude. The Government abattoir slaughters all the horned cattle, most of the swine and a considerable proportion of sheep and goats. The commercial transaction between producer and butcher is usually direct. Here once more the small scale and the unspecialised nature of meat production controls all else. The 1956 Census of Agriculture recorded only nine specialist cattle breeders and 94 breeders of swine as compared with over 700 engaged in sheep and goat breeding (in roughly equal numbers). Licensed importers bring in the store cattle which are then usually sold to non-specialist farmers. Feeding standards are as low as with milch cows. There is little incentive to improvement because of the low standard set by the widespread practice of milk producers selling old and diseased stock for butchering. Pig meat and store-bull meat do command a premium but, while some 15,320 horned cattle were slaughtered in 1957-58, the average import rate of stores is only some 3,000. In the same year, 5,000 sheep (of the indigenous poor breeds) and 8,400 goats (mainly those useless for milk production) as well as 7,800 lambs and kids, were slaughtered. The commercial side of meat and, for that matter, hides and skin production, like that of milk, can only be improved as and when the arable sector of agriculture is further developed.

Lastly, we must refer to exports. For some years, the most important exported agricultural product has been the spring crop of potatoes. Some general points concerning the production and sale of potatoes have already been made (Chapter VII, pp. 205-206), but one or two points need expansion here. The main market for pseudo-early potatoes grown in the Mediterranean (harvested in April and May), lies in North-West Europe. During the earlier part of this century, Holland, Belgium and Germany were the most important buyers but, of recent years, the Arran Banner variety, which yields well as a pseudo-early in Malta, has only found favour in Glasgow. By 1955 this dependence on a single main market was appearing dangerous and since that time, as noted by Haesler in 1957 (8), more heed has been taken of consumer demand for other earlier varieties, yellow rather than white fleshed, such as the Eigenhemer. On the marketing side, some important problems remain. The virtual absence of good civilian port facilities and the dependence on lighterage puts up freight costs and discourages shippers. The middlemen and wholesale handling of produce for export is not above reproach while the only worthwhile markets expect good and consistent quality of graded merchandise. Here the deficiencies of even the most commercially sophisticated part of the community can partly negate improved efforts on the part of the producer. Standards set by the home market tend to affect the services rendered to foreign markets and before the latter can be expanded, the former will have to be improved. There is one sector in which a separate break-through has begun. Air freightage of high value for bulk merchandise (which does not include potatoes) can make distant markets accessible to medium-scale individual producers. Thus flowers, plants and seeds are to some small extent being traded by a few growers sufficiently skilled to bypass the mercantile system. This cannot be done by all but it might encourage emulation.

The whole of the marketing organisation is of course organically associated with production and the commercial aspects of production need consideration.

One of the first points that strikes an observer in the Islands is that the production of the different commodities is altogether too concentrated in time. In the case of milk, a traditional organic cycle imposed by crude goat husbandry imposes great financial strains on the centralised agencies. With crops it would seem that traditional fear of risk-taking, rational enough in a peasant economy but antithetical to the whole nature of commercialism, is now hampering

1: Bowen-Jones et al. K-5 (1955-1958) 1961
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development and straining even the existing pattern. In the first place, physical environment so dominates the mind of the Maltese farmer that he categorically asserts the virtues and deficiencies of various regions and does not realise that with the techniques and crop-strains at his disposal he now can negate some of these differentiations. Thus the case-study quoted on p. 329 is atypical rather than normal. The result is that in these Islands, which have a long thermal growing season, there are very marked seasonal fluctuations in production. With cauliflowers, tomatoes, carrots and some other vegetables the produce suddenly appears on the markets, prices soar through the fixed ceilings and then as suddenly slump with glut. For the rest of the year - January to September in the case of cauliflowers, and for all except June to September with tomatoes - good quality produce is not available. Prices to the producer range from very high to zero and such fluctuations, superimposed on those caused by climatic variations, both strain the farming economy and encourage poor production. Thus some winter grown Arran Banner sold for up to 50s. per *qantar* in 1956 but only 8s. 4d. in 1958; in January 1957, unsold cauliflowers could be bought from *pitkali* for fodder at 1s. a sack, while a year later they fetched almost 1s. a *wizna* (8½ lb. av.).

Secondly, the concentration in time of the various harvests causes severe fluctuations in the demand for labour. All farmers interviewed regard hired labour as poor in quality and expensive. This is a frequent grumble in many countries but in the Maltese context there are some special implications. The number of agricultural labourers, which declined in the nineteenth century as pressure on land resources diminished holding size and encouraged cultivation by occupiers, further declined as urban employment opportunities increased. That pool which is left to some extent sets its standards of wage demand by urban levels, but more important still is only urgently required at two seasons of the year. During the first of these, March to middle May, it is needed for the harvesting of cereals, sulla, potatoes and other winter crops and for the first of the summer cultivations. The second period, about September, coincides with the grape harvest which lasts but three weeks, and with autumn tillage. The result is to elevate day-wage rates to the point of discouragement for the farmer and to lower seasonal earnings so as to repel possible labourer recruits. Merchants, vintners, fodder and food consumers and producers all suffer, and suffer needlessly when one realises the climatic possibilities for extending production.

To sum up, one may say that the farmer, although largely producing for the market, is generally unable to cost his efforts, deal on equal terms with traders, or appreciate the needs of the market domestic or foreign. This inability must be corrected because the farmer and his land are potentially capable of supplying more of the Islands' agricultural needs than they do at present, and of making a considerable positive contribution to the balance of trade which at the moment they help to distort.

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2: Boissevain E-5 (1960-1961) 1965
EZ6 Malta EZ6

level. There are also many village clerks and teachers who speak English to their children to help prepare them for school, for a sound command of English is a prerequisite to social advancement.

It is quite true that education has been given greater emphasis in the urban areas than in the villages; but the introduction of compulsory education between the ages of six and fourteen is rapidly closing this gap. The spread of education is reflected in the decline of illiteracy. In 1948, just two years after the introduction of compulsory education, 16 per cent of the population of Valletta and Sliema over fourteen years of age, and 47 per cent of the same age group in Gozo, were illiterate. By 1957, these figures had fallen to 9 per cent and 22 per cent respectively. During the same period, the national illiteracy rate declined from 37 per cent to 17 per cent.[1]

A number of other forces operate to reduce the social distance between town and country. The greater employment opportunities during and after the war, and the continuous improvement in public transport that allowed the villagers to take advantage of them, have placed an ever-increasing number of villagers alongside townsmen at desks and work benches. The war itself was a major force in the same direction, for British troops and people from the urban areas were evacuated to the country to escape the bombing attacks, and so shared the life of their rural neighbours. All learned a good deal from one another. It is not surprising, therefore, that many Maltese, especially in the villages, regard the last war as a social milestone, a dividing line between past dependence upon agriculture and present wage labour, between poverty and relative prosperity.

II

The inhabitants of the villages in Malta no longer derive their livelihood from agriculture, though this was the rule a century ago. Today most are semi-skilled and unskilled industrial labourers who work outside their villages for the Malta Government, the

[1] *Eleventh Census of the Maltese Islands, 1948* (Valletta, Progress Press), pp. 297 ff.; and *1957 Census of the Maltese Islands: Report on Population and Housing* (Valletta, Central Office of Statistics, 1958), pp. 41 ff. The two sets of figures are not quite comparable. Those for 1948 represent the total number of illiterates, while the 1957 figures show only the number of people who never attended school.

2: Boissevain E-5 (1960-1961) 1965
EZ6 Malta EZ6

giant dockyard in Cospicua, or for one of the various British Service departments scattered over the island. Gozo is more dependent upon agriculture, but many Gozitan men work in Malta, returning to their families for the weekend. Though Maltese villages are populated mostly by industrial workers, they have nonetheless a decidedly rural atmosphere about them, for their inhabitants still have links with the agricultural economy of the past. Many retain a patch or two of land which they plant with potatoes or some other cash crop to supplement their wages, and virtually all keep chickens and rabbits to supply them with eggs and fresh meat for special celebrations.

TABLE 1. Occupational Classes in Farrug and Kortin[1]
(Expressed as percentages of the total male working population)

Occupational Class	*Farrug*	*Kortin*	*Islands*
Professional and Clerical	4	7	15
Service and Skilled	39	52	55
Semi- and Unskilled	42	27	20
Agricultural	15	14	10
Totals	100	100	100

A hundred years ago, the inhabitants of Farrug were mostly farmers, though many were also employed on a cottage-industry basis in the thriving cotton industry of the time. Today they are for the most part wage labourers. Of the total male working population, 42 per cent are employed as semi-skilled and unskilled labourers, 39 per cent work as skilled fitters and as service personnel (shopkeepers, drivers, policemen, etc.) and 15 per cent as farmers. Only 4 per cent are professionals and white-collar workers. Three-fourths travel outside the village to their places of employment, chiefly with the Malta Government and the British military departments.

The occupational structure of Kortin is much the same. The higher proportion of skilled and clerical workers is in part a reflection of its past importance as an administrative centre, for until early in this century it was the seat of the district court. Seven per cent of the men work in professional and white-collar

[1] The figures for Farrug and Kortin are based on surveys I conducted, and the national figures on the 1957 *Census: Report on Economic Activities*, pp. 45–55. The totals of the male working population in Farrug, Kortin and the Maltese Islands are 296, 1,131 and 75,930 respectively.

2: Boissevain E-5 (1960-1961) 1965
EZ6 Malta EZ6

definition of the dogma of her immaculate conception four years earlier, and to St. Joseph, who was declared patron of the Catholic Church in 1870. Virtually all the secondary partiti are dedicated to one of these two.[1] At the same time, there was a general elaboration of the celebrations connected with the cult of saints, including the Italian and Sicilian custom of having bands play during the festas.[2] These were but a part of the more general influx of Italian ideas and customs which accompanied the refugees from Italy of the Risorgimento, who streamed into Malta following 1850. The propaganda efforts of the pro-Italian politicians of the time assisted in the diffusion of these customs, especially in the urban areas.

During this period a conception of social organization new to Malta was also gaining currency, namely the idea of voluntary associations for laymen, and in particular, social clubs for 'gentlemen'. After the establishment in Valletta of the exclusive British Union Club in 1826 and the equally exclusive Casino Maltese in 1850, clubs of various kinds began to spring up in many villages. They multiplied so rapidly that a local chronicler wrote in 1890, 'Today you don't find a village without one or two, nor a city without three or five.'[3]

The latter half of the last century was a period of relative economic prosperity for Malta. This resulted from the increase in military and naval activity after the outbreak of the Crimean War; the sharp expansion in government spending on public works programmes from 1859 to 1865; and the renewed world demand for Maltese cotton as a result of the cotton shortage created by the American Civil War.[4] The economic boom increased the demand for unskilled labour from the villages. This, in turn, helped to disseminate urban-Italian cultural traits. It also provided a financial basis which permitted increased expenditure on festa decorations, fireworks, and above all, uniforms and instruments for the bands. Finally, this period saw the establishment of government schools in all the villages. City-born schoolmasters moved into rural

[1] See Appendix A.

[2] See, for example, Giuseppe Pitrè, *Feste Patronali in Sicilia*, vol. XXI of *Biblioteca delle Tradizioni Populari Siciliane* (Torino-Palermo, Carlo Clausen, 1900), *passim*. He also indicates that a number of Sicilian towns and villages are divided by rivalry between supporters of different saints. (pp. xlvii ff.)

[3] P. P. Castagna, *Lis-Storia Ta Malta* (3 vols.; Valletta, C. Busuttil, 1890), III, 128.

[4] Charles A. Price, *Malta and the Maltese: A Study in Nineteenth Century Migration* (Melbourne, Georgian House, 1954), pp. 105 ff.

3: Buxton D-5 (1920-1921) 1922 EZ6 Malta EZ6

175 169 361 The building of Valletta was begun by La Vallette and continued by subsequent Grand Masters. The majority of the labourers employed appear to have been slaves, although a certain number of men are said to have been imported from Sicily and Calabria. It is difficult to estimate how far an industrial population, which must have amounted to over 8000 men, can have affected the ethnology of the island.

175 161 361 It will be seen, then, that the population of the urban districts, including as it does such a very large proportion of the total inhabitants of the island, is comparatively new to its present surroundings. We have not got in Valletta, as we have in some parts of the Mediterranean, a town site which has been occupied more or less continuously since the dawn of history. We do not know, of course, what was the condition of Mount Sceberras before Valletta was built, but it certainly was not in any way an urban area, the old town having been what is now known as Citta Vecchia.

175 648 The subsequent history of the Order is not of great importance from the ethnological point of view. The Knights did not succeed in suppressing the Barbary corsairs, but carried on a number of sea-faring expeditions, especially in the Levant, although during the seventeenth century there were numerous sea battles between the Knights and the corsairs.

175 ● 433 464 During the occupation of the Order, the food supply of Malta was imported from Sicily, and when diplomatic relations were strained between the Order and the King of Spain, shortage of food often became very marked. The relations between the Maltese and the Knights are difficult to sum up briefly. During the earlier days the privileges of the natives were only limited as far as military necessity, and, to a certain extent, financial obligations demanded. In later days the Maltese were employed as labourers, as soldiers, and as sailors, and although we find that in many cases the Grand Masters behaved generously to native women and children, the general record of the Knights, especially in the years before the final crash came, were unworthy of the ideals of an ascetic Order.

175 648 The Order ruled the island until the final break-up of the last relics of Mediæval Europe by Napoleon. The French garrison surrendered to the British in 1800, after holding the island for two years. Malta was formally ceded to the British crown in 1814.

IV.—Demography.

161 174 It has been suggested that the large number of bones found in the Hypogæum is evidence of a large population in Neolithic times. The place is, however, probably an ossuary, and may have been in use over a long period. The earlier records are for the most part unreliable. In 870, 3000 Greeks are said to have been killed, and 3614 women and 5000 children sold into captivity. This suggests a large population. In 1530 Boisgelin's figure (23) is 15,000, but Miège (27) suggests a population of 29,659. After the attack of the Turks in 1566, the total is said to have dropped to 10,000. The emissary of Pope Gregory XIII reported the

6:Beeley K-5 (1957-1958) 1959 EZ6 Malta EZ6

SECTION 1 : The Village in Maltese Rural Society.

121 369 Despite the small size of the Maltese Islands, the physical units in which the people live - the towns and villages (Map 1) - possess diverse characteristics. Sometimes administrative, sometimes morphological (i.e. pertaining to the physical arrangement of functional parts), these provide important evidence of the social and economic nature of society. The present report is concerned with rural society and with farming in the Islands where it is clear that the 'village' both reflects and shapes the character of the farmer. The historical evolution of the settlements cannot be examined here but a brief mention must be made of some important historical facts.

175 369 [361] [396] During their rule in Malta, from 1530 to 1798, the Knights of St. John built Valletta (after 1575) and founded an associated dockyard and surrounding towns. These creations have since expanded and merged to become the nucleus of modern Urban Malta. Before 1530, urban society had existed only in the capital, Notabile (Mdina)[1], and in a few large town-villages, none of which lay on the coast or adjoined the Grand Harbour. Nearly the whole of Malta and [241] [464] Gozo had been previously rural in that the population depended on a subsistence, peasant agriculture, with alternative employment existing only in the larger settlements or in the little harbour at the Borgo (Cospicua). Under the Knights, Valletta on the coast succeeded Notabile in the centre of the Island as capital; and the large town-villages (by pre-1530 standards) of Żebbuġ, Siġġiewi, Żejtun, and Żurrieq declined in relative importance.

[161] [396] [434] [712] [707] Little change otherwise occurred until the century and a half of British rule during which the Valletta nucleus and associated townships became dominant and the increase in the population accelerated[2]. The national economy became overwhelmingly dependent on the naval and commercial dockyards in the first place and, later, on the army and air-force bases[3]. Thus the old rural settlements became relatively if not absolutely of little importance.

RURAL SOCIETY

369 241 433 It is reasonable to talk of the farming communities as being synonomous with 'rural' settlements in Malta but the position demands more precise definition. Certainly the largest part of the Maltese rural-dwelling population has been based on agriculture - whether the peasant subsistence of the past or the commercial farming of today. Peasant subsistence farming in small-holding units, supplying almost all the needs of the family working the farm, is a type of farming in which money plays little or no part. It has faded very rapidly

It has faded very rapidly

only in the course of the past generation in Malta to give way to what may be called commercial farming in which crops, animals or animal products are sold for money.

By using the 1948 Census material (B/167 - 1948, Table 53) it is possible to classify districts on the basis of the proportion of the farming element within the 'gainfully-occupied' section of the population as follows:

Table 1 (v. Map 2)

Urban (0-3%)		Fringe (3-10%)		Inner Rural (10-20%)	
Valletta	0	Balzan	5.48	Mqabba	10.5
Cospicua	0	Luqa	6.1	Marsaxlokk	10.6
Senglea	0	Birkirkara	6.16	Żurrieq	11.15
Vittoriosa	.008	Tarxien	6.43	Ghaxaq	11.29
Cżira	.11	St. Venera	6.46	Attard	11.53
Sliema	.24	Qormi	6.88	*Victoria	13
Floriana	.43	Birzebbuga	7.3	Mdina	15.4
Pawla	.8	Żabbar	7.35	Mosta	16.56
Marsa	1.2	Żejtun	8.27	Żebbuġ	18.41
Hamrun	1.35	Lija	9.9	*Ghajnsielem	19.2
Msida	1.36			Gudja	19.91
Kalkara	1.84				
Pieta	2.6				
St. Julian's	2.9				

Rural (20-50%)		Outer Rural (above 50%)	
Qrendi	20.25	*Korbom	56.43
Kirkop	22.33	*Xagħra	64
Naxxar	24.8	*Gharb	67.81
Rabat	25.6	*San Lawrenz	68.3
*Xewkija	27.7	*Żebbuġ	70.9
Gharghur	29.1	Mġarr	73.3
Mellieha	34.73	*Ghasri	82.7
Siġġiewi	37.63	**Comino	89.47
*Sannat	39.04		
*Nadur	40.9		
Safi	46.87		
Dingli	47.4		
*Qala	47.6		
St. Paul's Bay	47.72		

Malta..... 9.11%
Gozo..... 41.78%
All Islands..... 12.28%

* - Gozo
** - The Island of Comino is statistically part of Gozo.

Clearly such proportional measurement is by no means an indisputable criterion for assessing the 'rurality' of Maltese and Gozitan villages but it provides a satisfactory overall basis for classification and is, as such, used in the ensuing account (Map 2).

Perhaps the most striking feature is the overwhelming significance of agriculture in Gozo. In Malta, by contrast, the Dockyard and other industrial concerns exert an increasing pull towards non-agricultural employment in all but the most remote districts (Map 4). Valletta and the Three Cities (Cospicua, Senglea and Vittoriosa) are the most 'urban', and the northern and western parts of Gozo the most 'rural'. An impression of the changing status of this rural (i.e. farming) element may be gained from the Census Reports since 1842 (B/167) but direct comparison is hindered by differences of tabulation between the census counts. However, the fact emerges that those villages

[i.e. peasant subsistence farming. Analyse]

178 which are now 'rural' on the basis of the size of the farming
369 element are the old settlements.[4] The non-agricultural Urban zone is a comparatively recent growth around Valletta and the Three Cities and lacks the traditional agricultural basis of most of the Fringe and Rural areas where the villages grew little in size and declined considerably in relative importance.

178 A closer investigation of the declining relative impor-
241 tance of farming within the rural villages themselves over
433 the past hundred years (v. Appendix 1D, vii and Graph)
464 reveals that during some periods economic prosperity in
166 Malta has attracted labour away from the land but, equally, that these moves were largely temporary and that there was a return to farming as soon as boom conditions disappeared. This was the case, for example, during the last decade of the nineteenth and the first decade of the present century (B/381). Since 1931 there has been a general retreat from farming (v. Graph) along with a socio-economic emancipation of the Maltese farmer in which the traditional ties with the land have been loosened. The earlier, temporary moves lacked this social rejection of an old way of life. The farmers who left their fields for industrial work at the end of the nineteenth century were in fact never very far from the land upon which they relied as a stand-by when the boom conditions declined. Today the farmer's son, far from maintaining a foothold in agriculture, is as fast losing touch with the land as he is with the community which it supported. If a depression were to appear along with any limitation in emigration a return to the land would be less easy than in times past. This would be due not to a shortage of land for farming or to difficulty in getting work in farm labouring but to the current estrangement between farmer's son and farming, an estrangement as much sociological as economic in character.

178 The earlier temporary moves from the land were partial
464 rather than total in that the bulk of farmers and farm-workers
241 who had sought urban jobs had come from the Fringe or 'Suburban' areas rather than from the Rural districts proper (B/381). The present move away is however from all parts of countryside. It is evident that both today and in the past the availability of alternative employment has been the governing factor. The earlier periods of economic prosperity mentioned brought only temporary alternative opportunity for
175 the farm-worker. In fact until the present century the
464 only large-scale alternative to field work for the rural
288 Maltese and Gozitan was cotton spinning and weaving. Even here possibilities were limited. Cotton growing and manufacture in the Islands developed fast during the eighteenth

175 288 464 century but went into decline early in the nineteenth, particularly after the Spanish Government prohibited all imports of yarn (1800). But the industry was slow to die and is today undergoing something of a re-birth under a protective monopoly[5]. Cotton provided, during the nineteenth century, much employment, particularly for women who, in 1861, amounted to 96% of all cotton workers (B/167 - 1861). The small male labour force was mainly engaged in the beating and dyeing departments of the industry. This industry moreover, was centred in the villages and was essentially a home craft, so that the worker in cotton was never very far removed from home or farm, and field work was an alternative when cotton production declined. This decline accelerated towards the close of the nineteenth century but was not spread at an even rate over the whole of the rural area of the Islands. The total decline was due to external economic factors but, within the Islands themselves, the industry survived longest in its traditional 'core area' of Rabat and Żebbuġ. "The cotton industry persisted where the skills were greatest - where it now exists as a craft industry" (B/381).

175 178 241 369 464 [288] [396] [504] However the harbour areas and the dockyard were providing work and opportunity on an increasing scale towards the end of the nineteenth century and during the first quarter of this[6]. "The population nearest the harbour profited first, and there was a spreading outwards, as more and more of the Island sought work in the port. As the attraction of the harbour area spread, so interest in the declining cotton industry decreased". (B/381) A new alternative was thus appearing and one very different in that it meant a greater break with home, farm and village than had been the case with cotton. Agriculture itself came to feel the impact of the alternatives. "Gradually the whole Island became drawn into the economic sphere of the harbour area, and the population of the rural area became less and less dependent on agriculture for its livelihood" (B/381). This is a key factor in 178 241 369 241 433 an understanding of rural Malta and Gozo today. The second, considered later in more detail, is the social change which has been brought about by the emancipation of the villager through direct and indirect education and contact with the people and ideas of the world outside. Together these two forces, the one an extension and magnification of what had happened before on a temporary basis and the other a consequence of the trend towards social enlightenment which has been a widespread feature of the twentieth-century world, have given the farmer an escape. On the economic level he has the new range of employment opportunities indicated, while his newly acquired literacy and education is making it

178 possible for the young countryman to follow his economic
241 shift from country to town with a social transplanting out
369 of the close-knit community of the rural village to the
241 cosmopolitan levels of life in the towns.

433 Along with the increase of employment in the dockyard
178 and harbour there has been a relative decline in agriculture
464 in that an increase in the total numbers of the farming
396 community was accompanied by a shrinking of the agricultural
433 sector within the total gainfully occupied population of the
504 Islands. The Dockyard has grown to become the largest single
369 concern and, in March 1957[7], gave employment to 12,572 Maltese workers (plus a further 417 United Kingdom nationals). The percentage of Dockyard employees in individual districts may be taken as a second possible criterion of 'rurality'. Appendix 2.A, showing Dockyard workers in March,1957, expressed as a percentage of the employed population, reveals the heaviest concentration round the yards themselves (the Three Cities) and in the Żejtun, Żabbar, Pawla and Kalkara areas of south-eastern Malta. The whole of Gozo supplied only twenty-five workers at that time - this being the same figure as for Santa Vennera, near Hamrun. Nevertheless it is significant that no part of Malta is unrepresented in the Dockyard (Map 4).

464 The workers listed in Appendix 2.A are only a part of
36 those employed in the harbour area and the towns and it is to this group that one refers when speaking of the 'draw' of the harbour area and its associated manufacturing and service industries. These include transport of various kinds, shops, cafés and bars, workshops, offices and all manner of public utilities and services.

361 It is clear that in a definition of 'rurality' the
369 occupational structure, whether considered from a farming or
162 dockyard point of view, is not the sole criterion though the most convenient. One might take, for example, the extent to which each census district is built-over. The 1957 census distinguishes 'township' areas within each district (Appendix 3). The township-dwelling population accounts, as one would expect, for nearly 100% of the total in the Urban zone, but even in the rural districts most people are seen to live within the villages rather than in isolated farmsteads. In terms of area on the other hand the contrast between urban and rural zones is marked. In all three rural zones only five districts show a built-up township area accounting for more than 10% of the total. Richardson considers this nucleated-dispersed aspect of settlement distribution for 1948 and 1931 and notes significant changes in the pattern (R/561).

000 already unbalanced total Maltese economy.

241 423 The first aspect of the problem is apparent from the points of definition just made. This is the complex of features which have produced the present landscape of tiny field-plots covering the cultivable parts of the Islands with a patch-work of small farms, each consisting of widely scattered pieces of good, bad or indifferent land. The farmer whose lands form one block is very much the exception.

[433] Yet although the number of constituent plots is often large the average area of the Maltese farm is very small ("Over 55% of the total number of holdings appear to have less than 9 tmien of cultivable land"; B/164 - 1957, p. x) and in many cases is patently insufficient to supply food for the family concerned as well as produce a surplus of crops or fodder (Case V).

241 311 464 The obvious solution of acquiring more land is not always possible, as illustrated by Case V where present and new building severely limits the extent of cultivable land in the vicinity. Moreover much land is going out of cultivation because the hand work required to maintain it is not forthcoming under the current wage/labour conditions. Many fields were built on inaccessible or barren patches of rock in days when manual labour was readily available and cheap, much of it unpaid family labour. Terrace walls were constructed expertly and soil tediously carted, levelled, tilled and irrigated. But while mechanization, particularly

[409] in the form of now popular small rotary cultivators, is enabling a smaller labour force to cope with more work over much of the Islands, some of these man-made fields defy even this kind of development on account of their small size, tortuous shape or inaccessibility. The terrace walls are neglected. A sudden storm removes a wall section and the soil which it held in place collapses over the terraces below and into the 'wied' bottom whence, in associated flash floods, it may be swept seawards.

423 241 454 The tenurial aspects mentioned (B/525) complicate this picture since they make for further divisions in an already minutely parcellated lay-out. Moreover a farmer is frequently deterred from making improvements on a pie e of land if he lacks security of tenure (Case IX): he concentrates any capital outlay on the patches of ground which he either owns himself or has on long lease and which show the necessary conditions of size, accessibility, irrigability (Case XI); or which provide suitable sites for building (Case I).

241 423 Part-time farmers are an increasingly important feature. They neglect or relinquish unprofitable land even more

241 423 rapidly than does the full-time farmer who often seems to continue working unpracticable fields which, by present standards, are uneconomic. He continues to work them for reasons which are a mixture of sentimental attachment, force of habit and, quite often, stark ignorance of the fact that the plots concerned are bringing him loss rather than profit. He does not indulge in cost-accounting.

241 464 433 This is the background to the present attempts to rescue Maltese farming from its two main difficulties:

(a) a drastic reduction in the agricultural labour force due to the retreat from the land, especially by the younger generation,

[654] (b) the fact that contemporary Maltese farming cannot produce a profit without subsidies and protection from foreign competition.

654 241 464 The answer to the labour problem is held to be mechanization, along with the education of the farmer in the use of better suited methods, crops, animals, etc., and maximum development of the land by means of low-interest Government loans to farmers. The accepted answer to (b) is in fact not an answer at all but entails the creation of an artificial farming economy in which Government subsidies and guaranteed markets enable the farmer to make some profit where he would otherwise sustain a heavy loss. The cost of this is the price which the Government is willing to pay in order to develop the Islands' only primary industry to the maximum and to encourage the farming community to remain on their farms.

The limited scope of these solutions emerges from the discussions of labour, mechanization and protective subsidies and guarantees which follow.

LABOUR

178 462 [592] The decline of the peasant system in Malta and its replacement by what has been called commercial farming has been accompanied by changes in the family as the operating group within the farm. There has been no strictly formal division of labour by sex in Malta[20] but there is an 'accepted' division and this is important to an understanding of the present socio-economic upheaval in Maltese rural society.

562 462 178 In traditional and peasant Malta woman's place was certainly in the home. An old adage held that "Women should never appear but twice in public: the day they are married and when they are buried" (B/326, Vol. 1, p.80). Even today the countrywoman, especially in Gozo, still divides her activity between home, Church, and the fields worked by the

242 and information centre to which the farmer may turn for
654 advice and material help. Much discussed by the farming community in 1958 were the plans for a proposed artificial insemination centre to help in the improvement of stock in the Islands along with the provision of an efficient stud (Section 4). The early stages of the Advisory Service are outlined in B/252.

178 Thus a lot has been done and a great deal more said
241 about farming in Malta and its improvement and modification
654 to bring it more closely into line with present conditions
181 both in Malta and abroad. The farmer's characteristic conservatism has to be overcome at every stage (v. Section 4)
[234] but where he sees a clear prospect of quick profit he is not slow to move. The outstanding example of this is the guaranteed milk sale through the M.M.U. which, in the space of a few years, has produced a revolution in dairying in the Islands.

433 The herdsman is not concerned with an increasing milk
654 surplus in the Islands as a whole. While the guarantee
234 remains he will continue to put every effort into selling more gallons each day and to subordinating cash-cropping to fodder production in his fields (Cases I to IX). It is certainly keeping him in farming but it is not, apparently, having the same effect on his son.

SECTION 3 : The Farmer and Living Standards

MONEY

433 In the early nineteenth century the Maltese farmer was
434 a 'peasant' in the sense that he was engaged in small scale
178 subsistence farming with the help only of his family.
[175] Economically and socially he saw little beyond his family, farm and village. There were very few wants which could not be supplied at home, or at least within the village. In 1958 one heard of a now almost mythical Maltese countryman of a hundred years previously whose annual expenses in terms of money totalled 6d : 3d for paraffin and 3d to have his horse shod! Today, the farmer who spoke thus of his predecessor receives about £300 for the milk which he sells each year (Case I) as but one item in a present annual turnover of several hundred pounds which characterizes modern 'commercialized' agriculture in Malta where the farmer produces for sale. He still provides much of the food for his family but he is no longer a peasant.

178 Thus the place of money provides a basic distinction
436 between the present 'commercialized' position and that which
437 prevailed under traditional peasant farming. A century ago money and financial transactions in general featured only

178 to a limited extent in the life and work of the average
436 farmer, and barter as a medium of exchange had a far greater
437 importance than in recent decades. Family labour within
465 the home went unpaid, but even where wages were paid they were very small indeed, both relatively and absolutely when compared with modern amounts (Section 2). Examples, for comparative purposes, are given by the 1836 Royal Commissioners (B/184), Midge (B/516) and Price (B/556), but even as late as 1911 a day's wages in farm-work might
178 have been something of the order of 1s 3d (B/186). From
454 this same report however, it is learnt that the farming community had by that date become investment conscious and had passed through a sequence of stages:

(a) hoarding "their small capitals" (B/186-12473),
(b) investing in jewellery,
(c) saving with the aim of buying a house,
(d) depositing in savings banks towards this aim,
(e) "Now they want bigger interest than the banks will give them and they are investing in foreign bonds" (B/186-12475).

178 The changed place of money in Maltese rural society
465 today is exemplified by the field labourer of fifty years
[461] ago who received 1s 3d for a dawn-to-dusk working day/ where his grandson now expects 25/- or 30/- for a limited eight hour day, if he can be persuaded to indulge in field work at all. The developments observed by the 1911 Commissioners were by no means general among the rural population at that time. They were in fact merely the
178 first limited signs of what was to come. However, between
433 1911 and 1939 the Maltese farmer moved steadily towards
722 the commercialism of today. The Second World War brought
465 siege conditions of shortage which put the food producer in Malta in a more commanding position than ever before. He could expect very high guaranteed prices for his produce - or even higher ones on the black market. Farmers became used to the idea of big financial returns for their labour.
[454] Some were able to effect substantial savings under distorted war-time market conditions, but more widespread still was the feeling, which carried on after 1945, that farming in Malta ought still to produce, in competitive peace-time, the profits of war time shortage.

178 The major underlying socio-economic trend has been
511 the great expansion in the range of demands of the countryman. The traditional peasant subsistence farmer was content to live off his own farm as suggested above but the change to 'commercialism' in his farming along with his social emancipation has widened the sphere of considered needs. Diet has become more varied and now includes a variety of food items not produced locally: clothing

472 571 [65] [157] to be suffering from a mixture of inertia and pure inability to organize the accounts of his business. In some cases he is compelled to put forward an outline statement for income tax assessment but generally his illiteracy and suspicion makes him unwilling to trust other individuals with details of his income and expenditure.

571 454 [593] Within the family, however, this suspicion does not normally exist. In fact the housewife tends to have full call on the contents of the "one purse" although in only a few cases was it found that she was making any detailed attempt at budgeting for the expenses of her home and family. As with the operation of the farm so with the home, the money is dispensed as demanded but all the time the instinct to save, observed by the 1911 Royal Commissioners (B/186), is there. The traditional peasant idea is that a large hoard of money or valuables will serve as an [178] insurance when the expected depression arrives. Despite the opinion of the 1911 Commissioners, the notion that the saved capital would be better invested, possibly in capital equipment, is only now spreading to a considerable part of the farming community of the Islands.

511 437 178 In the day-to-day expenses of the traditional Maltese village household, barter played a considerable part. Today instances of it are rare and money is the fully accepted medium of exchange. As already indicated the Maltese farmer is not so far removed from his peasant past as may at first sight appear to be the case and one of the basic aims of his farming is still the provision of food [433] for his family. The average farm in Malta, whatever its basis (stock, dairying or field produce), usually strives [294] to produce as much of the food needs of the family as possible, though the provision of the family's clothing, as in the past when home-grown cotton was spun and woven to make clothes for the members of the grower's family, is no longer attempted.

262 438 Thus the food bought in by the farmer's wife includes the 'new' items of diet which cannot be grown on the home farm: preserves, processed cheeses, spaghetti and farinaceous pasta, processed meats, tea, coffee, and evaporated milk (inordinately popular throughout the Islands). [656] Flour rationing since the early part of the 1939-45 War has killed bread making as a home industry. Meat, except for rabbit, fowl and small birds, has to be purchased, as all [433] slaughtering is Government-controlled. The farmer does aim to produce the basic vegetables - potatoes, beans, peas, pumpkins, melons, tomatoes, onions, garlic, artichokes, endives, celery, cucumber, carrots, and fruits - oranges, apples, lemons, figs, peaches, etc., required by the family.

654 232 242 to have made its presence felt among the farmers themselves.

When a greater number of qualified personnel are available the Advisory Service and its various ramifications may go a very long way to improving Maltese agriculture and raising the profit-margin and therefore the living standards of the farming population. But in its early stages it has had to concentrate on the present farmers of Malta and Gozo who are, as has been emphasized, not only often illiterate but frequently near retiring age as well. The younger generation of farmers' sons, on whom the future of agriculture in the Islands will depend, have had to be overlooked. But if they cannot be persuaded to stay in farming the improvements accepted after great effort by the generation of their fathers will mean very little.

241 829 [575] [874] In Malta and Gozo there is nothing to compare with the Young Farmers' Clubs of the United Kingdom; nothing in fact to serve as a nucleus around which an enlightened younger farming generation might develop. Neither is there anything in the Islands of the nature of an agricultural college where young farmers might be trained. It is possible that the primary schools in rural areas might provide a means of contact between the agricultural authorities and the children of the farmers but the difficulties which would arise are clear. Nevertheless such an approach as this might do something to alter the attitude to farming which is one of the biggest problems facing the industry in the Islands today. If farming and other rural children could be shown that farming is no less respectable than the variety of alternative occupations it might persuade them to stay in the industry long enough to build upon the improvements now being introduced.

654 234 As was clear in the case of the balanced rations for pigs mentioned above the farmer is not slow to take advantage of a financial subsidy. The major example of this is the recent growth of the dairying industry with the guaranteed price to producers for milk sold to the M.M.U. (Section 2). In short, official policy here has been to make milk production profitable for the producer but at the same time to maintain a low consumer price for the pasteurized product - at a level producing a loss the cost of which is borne by the Government. The totals [433] of milk purchased from producers by the M.M.U. reflect the rapid increase in this aspect of farming in recent years. Milk surpluses (partly losses) also increased markedly as did the percentage of milk deriving from cows rather than goats[41].

178 (3) On account of those same physical limitations
241 mechanization of field-work cannot be expected to solve all
407 labour problems in Maltese agriculture. An initial, over-
464 optimistic emphasis on large tractors and other heavy machinery has given way to a rapid increase in the number and popularity of the small rotary-cultivators. But even this cannot be expected to displace completely the wooden plow and hand implement working (Section 2).

However, mechanized farm implements, particularly the small, manoeuvrable rotary-cultivator type of hand tractor, have enabled a reduced number of farmers to work their fields more intensively, and, in some cases, to increase the area worked by a single individual.

The neglect of those aspects of farming where manual work is dominant and necessary have, nevertheless, accompanied this change with the bizarre result that intensification of effort and neglect are proceeding simultaneously (B/336).

178 (4) A basic factor in the present situation, in which
434 the young farmer is retreating from farming, has been the emergence of a demand for money income (Section 3). The traditional pattern of peasant, subsistence farming in which the main object was the support of the farmer and his family has been replaced by a money-conscious outlook in farming. The farmer now expects his farm to produce a profit with which he can

(a) purchase those items no longer produced on his farm or by his family (clothing, bread etc., etc.),

(b) purchase items which have recently become part of his regular demands and for which money is a sine qua non (property, farm machinery and equipment, clothing, preserved and other imported foods and drinks, recreation, transport, etc.),

433 Food, as an item of family expenditure, nowadays figures
511 especially prominantly

(a) where the income derives mainly from milk sold to the M.M.U. and where the land is put, almost exclusively, to fodder,

(b) among part-time farmers (a very rapidly growing element of the farming community in recent years) who concentrate on fodder crops because of the comparatively little labour involved and the generally good market prospects.

178 But of greater significance in the long-term view is the
434 fact that these new demands for monetary gain are a particularly prominent feature among the present younger generation of the farming community. For them a substantially increased income is synonomous with social and economic betterment. Since they do not envisage such an increased income coming from farming they are all the more anxious to leave the

*159 46 work of the farm and animals himself", and he can only cope with his own farm and animals if he follows a heavy and rigidly organized schedule of work. Hired labour is not a proposition, Pawlu avers, at £1 for an eight-hour day and this has apparently contributed to the emphasis which he has put on fodder and milk production in recent years. [433] High costs of hired labour for field-work together with the poor and unguaranteed returns for crop produce make field work on dry (baghli) land a poor prospect. Irrigable land presents a different picture but there is none available in Pawlu's district.

*159 512 Pawlu's timetable (in effect he runs the farm single-handed) centres on the animals. During the summer months the pressure is slightly less because the weather is easier, field-work is less pressing and he has the casual help of the younger children in school vacations. Daily time of rising for Pawlu depends on where and when the milk has to be taken for collection. At one stage, in 1957, he had to be up soon after midnight but, until the new milk factory was opened at Xewkija in 1958, a more usual reveille was at 2 or 3 a.m.

[264] [262] Breakfast, of coffee and bread, is taken when the family gets up or when they return from the Church nearby. Pawlu often has to take meals when he can fit them in between his jobs so that it is somewhat exceptional to find the whole family sitting together for food. The morning milking takes him some two hours after which the animals need feeding and attention before he can go to the fields. About six times a month his morning takes him to Rabat on shopping or business errands.

[264] [262] Lunch, the main meal of the day, consists every day of either minestra (thick soup) or farinaceous paste of some kind, together with bread, cheese, oil (żejt) and home-made tomato 'kunserva'. Lunch is usually over by noon when milking and the preparation of the afternoon feed begins.

[264] The evening meal is normally similar to the lunch in content but less in amount. It is often taken immediately before retirement for the night which is early in the village. The farmer reckons to be in from the fields by sun-down but, when the evenings are longer, most of the village is quiet soon after 6 p.m. except where some conversation lingers in a paraffin-lit shop.

*159 512 794 Sundays and festa days are breaks from the normal routine, but Church-going is not confined to these days and in fact accounts for some two half-hour visits every day with extra attendances at the weekend. In this very rural community the 'social' aspect of church-going retains most of its traditional importance. In the absence of

*159 512 794 cafes, clubs, etc., it remains the centre of village affairs and the focus of activity, secular as well as religious.

Pawlu is one of the farmers of this village, but his 592 children are not likely to be farmers. Therefore can they 178 remain of the village? As yet it has patently little to *159 offer their education and culture and no apparent opportunity for a livelihood at their new and higher standards. They are leaving farming and are leaving the village as well in search of the means of earning a living - other than in farming.

SUMMARY of CASE I

*159 423 427 (A large scale Gozitan goats' milk producer with a considerable land holding)

A. Land.

[311]
- Area held in 1956: 18⅝ tmien, 1957: 30½ tmien, 1958: 42½ tmien, the additions being almost entirely in the form of grazing land. The present holding is in 26 plots, rented from several landlords including Church, Civil Government and private individuals. Owns one small plot and sublets several others from neighbouring farmers. Plots scattered over considerable area in Gharb and St. Lawrens districts, Rent totals £23.14.0 p.a., ranging from 21/6 per tomna for cultivable (dry) land to 4/- per tomna for rough grazing.
- Previously held a further 20 tmien, 3 of which have been sub-let or exchanged and 17 abandoned owing to inaccessibility.

*159 423 311 B. Utilisation.

	1956	1957	1958
House	⅛	⅛	⅛
Vines	⅛	⅛	⅛
Prickly pear	⅛	⅛	⅛
Fodders	8½	10½	14⅛
Vegetables	8⅝	6½	2⅝
Rough Grazing	-	12	24
Unused	⅛	⅛	⅛
Total	18⅝	30½	42½ tmien

*159 231 C. Livestock. (Nov. 1957)

38 goats, 8 kids
2 cows
1 sheep
100 poultry
1 horse

*159 401 [427] [456] D. Capital.
- Land all rented save one small plot.
- Appears to be amassing capital from profits on milk production.
- No specialised equipment.

*159 464 E. Labour.
- No permanent hired help.
- One son works full time on the farm, help from other children.

*159 433 [434] F. Production and Sales.
- Milk is the main item of income to which occasional small sales of vegetables are the only addition.
- Sample daily feed for 1 cow yielding c.3 gallons

*159 ●433

3 rotal	barley bran	1s. 4d.
8 "	cake	3s. 6d.
5 "	sulla	1s. 4d.
8 "	beans	5s. 0d.
1 basket	prickly pear	1s. 0d.
½ "	straw	6d
		12s. 8d.

- Sample daily feed for 46 goats yielding c.10 galls.

48 rotal bean	£1. 10s. 0d.
16 " barley	6s. 0d.
4 bundles sulla	5s. 0d.
Furrajna (green barley)	5s. 0d.
	£2. 6s. 0d.

[434] - Daily feed costs thus average £2.18.8 and the income from milk £3.16.6. Profit, making no allowance for labour costs is 17/10d. daily, varying slightly with milk prices.

*159 234 G. Husbandry.

(i) - Does not subscribe to the common view that "the more the feed the more the milk".
- Attempting to increase profit margin by cutting fodder costs, which he does in three ways:-
(a) By extending the area held under fodder crops. The cost of fodder makes this worthwhile even though it involves larger purchases of food for the family.
(b) By acquiring grazing land, a useful supplement to fodder crops.
(c) By improving feeding patterns to give a more balanced diet.

*159 241 (ii) - Land lies idle in the summer months since none is irrigated.
- Two rotations are in use,

(a) 1st yr: Wheat after manuring and thorough hoeing.
2nd yr: Sulla
3rd yr: Wheat
4th yr: Fallow

(b) 1st yr: Wheat
2nd yr: Sulla and Beans
3rd yr: Potatoes, Tomatoes, Melons after tractor plowing.
4th yr: Fallow

*159 43 829 H. General.

- Completely dependent on the sale of milk to the M.M.U. at current prices of 5/6 to 6/- per gallon.
- Commercially much more sophisticated than the majority of Gozitan milk producers, this farmer runs a profitable concern.
- Has shown himself willing to cut losses by relinquishing land which he cannot work profitably.

[454] - At the same time makes considerable effort to add suitable land to his holding.
- Atypical in avoiding dispersion of effort over a variety of minor activity and in high degree of specialisation. This specialisation, however, renders him particularly vulnerable to any change in policy on the maintenance of milk prices.

*159 234 CASE II: Ġużepp (A goats' milk producer with subsidiary cash cropping.)

Like Pawlu (Case I) Ġużepp is a herdsman. He has however fewer goats (25) and no cows as "there is no place to keep them". Accommodation is in fact one of the major problems facing him and thwarts his efforts to increase his herd and thereby his earning power. Late in 1957 some of his

*159 234 premises were deemed by the sanitary authorities to be unfit for animals. He has no goat pens near his house but is prevented by the lack of capital from making substantial improvements in his facilities. Owing to shortage of space, he prefers to buy in fully-grown animals rather than to breed his own, which would be cheaper. Fodder storage [246] (he produces just enough sulla to feed his own goats) is a further problem and he tries to 'make do' with odd corners of often unsuitable space.

*159 241 ● 433 Crop production is geared to the provision of fodder for the goats, together with the supply of vegetables for the family, and grapes (for wine), some tomatoes and other items for casual sale to local shops.

*159 434 The income side of his budget depends on the proceeds from the milk sold to the M.M.U. In August, 1957, he was getting about 16/9d a day for the milk sold. His grapes for 1957 brought him a further £66. His largest expense is fodder (apart from sulla) and its price is a constant [427] cause of grumbling and bitterness by Guŝepp. Rents for 1957 totalled £35, that is about £1 per tomna for good land (generally red soiled 'hamrija') and 15/- for poorer, whiter ('abjad') soils. His cropping illustrates a common [241] [433] practice in Maltese farming in that he tends to plant more of a crop which has just had a 'good' season and thereby frequently suffers from glut conditions. Thus in 1958 he aimed to plant a large area to marrow (gargha baghli) because "last year's crop was good". In the previous year he had been unable to get all the potato seed he would have liked but, at the end of the season, was able to buy in potatoes very cheaply for the table because of the general glut in the crop which he had, as it transpired, fortunately avoided.

*159 438 443 Guŝepp, like most farmers, is very critical of the great gulf between the price given by the pitkal and that paid by the consumer. In a small way he strives to avoid this by selling some of his produce directly in the local village, but this brings him only some £12 per annum.

X 159 511 829 178 Expenses are few apart from food, clothing and a few extra items such as Church contributions. His bill for entertainment is practically nil and his children are not yet old enough to demand large sums of pocket money - which one foresees they will do. Guŝepp is very anxious to enlarge his farm and his herd and to improve his accommodation. In this development one feels he is looking to the future support of his now school-age sons. Certainly the older of these seem at present to look forward to following in their father's footsteps. But it is clear also that Guŝepp's own deep attachment to the land and to farming is

* 159 443 434 521 Shopping is done in the local village but Marku makes the journey to Valletta for the 'Fuq il-Monti' Sunday market occasionally, though with the intention of gossipping rather than making purchases.

CASE III : Summary

(A goats' milk producer.)

* 159 423 **A. Land.**

30 Tmien in Naxxar-Gharghur Hills area.
14 Field plots in two main groups;
All on soils of tad-Dawl and l-Iklin Complexes.
Of this - 5½ tmien freehold,
- 24½ tmien leased from 6 landlords.
Rents range between 10/- and £1 per tomna.

* 159 241 311 [434] **B. Utilisation.**

Almost entirely fodder production e.g. February 195
3 plots under widna.
1 plot under barley - pulled green.
3 half plots under wheat.
2 half plots under sulla.
1 plot used for goat grazing - fallow.
1 plot under forfira (bitter vetch).
1 enclosure under prickly pear.
3 plots under vetches.
Remainder subdivided and carrying potatoes, broad beans and a few vegetables.
Only regular cash crop - winter potatoes.

* 159 23 **C. Livestock.**

During 1957/1958 goat numbers ranged from 35 to 50 and milkers from 27 to 40.
5 sheep kept for wool and sheeps milk for cheese-making.
1 mule - imported from Tunis.

* 159 [423] [454] [412] [407] **D. Capital.**

- Land held in freehold valued at £400 in early 50's
- Freehold village house.
- According to his own statement liquid reserves of £200.
- Equipment - hand tools, local wooden plows, etc. No machinery but plans to buy rotary cultivator.

* 159 464 [427] **E. Labour.**

- Wife spends c.30% of her time on the land, although childrens ages range from 3-8.
- Communal help for threshing.
- Hires labour for barley and sulla cutting. During 1957 c.18 man days at cost of c.£15.
- Every 4th year deep plowing (by contract) of about half the fields. Cost £1 to 15/- a tomna.
- Each year has some land tilled by rotary cultivator. Cost 12/- a tomna.

* 159 ● 433 **F. Production and Sales.**

- Goats milk sales range from February minimum of c.45 lbs. per day to May-August maximum of c.70 lbs. per day.
- Winter potatoes as cash crop vary considerably in yield and in selling price.
- Occasional sales of small quantities wheat and wool
- Produce consumed by family valued at c.£1 per week.

* 159 241 **G. Husbandry.**

(i) Land - All dung used on fields - usually before potato setting.
- 7-8 bags of sulphate of ammonia applied annually
- The concentration on leguminous fodders prevents the employment of the normal four-year rotation

*159 24 (ii) Seed - Keeps grain and seed-potatoes back from harvest - usually least saleable.
- Buys sulla seed.

*159 231 (iii) Livestock - Breeds goats from own herd and has no wish to try breeding experiments.
Replacement rate c.5 per annum.
- Feeding - no feeding programme and relies mainly on bulk green and dried fodder including rough grazing on wasteland and 6-7 bundles a day of 'haxix' - weedy roadside and wasteland vegetation.

H. General.

*159 159 A conservative Maltese goats milk producer. More suspicious than most and not prepared to give much financial information. He has no idea of costs or profit and is only interested in sustained high milk prices.

CASE IV : Wistin (A large-scale goats' milk producer with some land.)

*159 234 474 Like Case III, Wistin is a goat herder with fields supplying fodder for the animals together with some food items for the family. His herd is however much larger and in mid-1957, included ninety animals. He began goat herding with a few goats many years ago but the biggest increases have been in the past few years of guaranteed milk sales to the M.M.U. Now he aims primarily at profit from milk and is very much less concerned with rearing kids. He is a member of the Malta Milk Company (Il-Kumpannija Maltija tal-Halib) which, he believes, stands for the 'rights' of the milk-producing herdsmen. The Company demands improvements in the system including a higher price to the producer in the flush production period. It can scarcely be said to argue from strength, in view of the present market situation heavily distorted in favour of the milk-producer by Government policy.

*159 234 461 [456] The village became a "Closed Area" in 1955. This meant that Wistin could no longer sell unpasteurized milk from door to door - previously there had been some seven or eight milk-sellers like him in the village. Since 1955 he has been concentrating on his goats and on fodder production. He says he "likes goats". Certainly milking, cleaning and grazing the animals takes the greater part of every day (as in Case II, Wistin takes out his goats to graze and exercise practically every afternoon of the year). He is proud of his herd and "would feel ashamed to appear at the M.M.U. collection depot without a reasonable amount of milk for sale". In the flush summer season this is 20 gallons or more but drops considerably in the winter. Wistin strives to keep the milk production as steady as possibly however throughout the year because a steady supply of milk to the M.M.U. means a steady income for his family. He himself works on his fields only "when some spare time is

[433] [434] *159 46 241 465

159 241 B. Utilisation.

Most of the 1 tomna of cultivated land is permanently used for potatoes intended for domestic use. There are also a few patches of garlic, beans, onions and other vegetables. A few vines and prickly pear plants give some saleable produce e.g. prickly pear fruit sold from door to door fetched £10 in 1956.

159 231 234 C. Livestock.

November 1956:
45 goats, 7 kids, 2 billies, 1 horse, 24 hens and rabbits.
November 1956 to July 1957:
15 goats died.
July 1957:
50 goats.
September 1957:
48 goats, 11 kids, 1 billy.
November 1957:
25 milking goats, 10 kids.

159 182 D. Capital.

(i) No freehold property and little equipment except for cart.
(ii) In perpetual debt - probably between £60 and £100 behind in outgoings at any one time (v. Table 5).
(iii) Receives C.A.R.E.[27] food gifts.

159 464 E. Labour.

No family labour. Of 10 surviving children, only two are above school-leaving age and they have non-agricultural employment.
- Hires no labour or machinery.

159 434 234 [433] F. Production and Sales.

(v. Table 5)
(i) Goats milk sales range from December minimum of c.20 lbs. per day to May-August maximum of c.70 lbs. per day (1957).
Typical annual pattern of usage in recent years:
2500 gallons sold to M.M.U. (@ average price 5/9 per gall.)
200 gallons sold privately (@ average price c.5/6 per gall.)
200 gallons used domestically.
Gross income from milk sales are of the order of £750 p.a.
Known expenditure on feed of the order of £400 p.a.
Net income probably less than £200 p.a.
[432] (ii) Sales of old milch goats and kids fluctuate with condition of herd and with disease. In 1957 10 diseased goats fetched 70/- each and 5 kids c.10/- each. Replacements cost between £8 and £20 for Maltese-Saanen goats in milk.

159 232 234 G. Husbandry.

(i) Livestock Feeding. Typical pattern:
50 goats receive 4 bundles sulla, 25 lbs. beans and 50 lbs. cake in summer. During winter more greens and less beans. Very little grazing.
(ii) Herd suffers badly from pregnancy and after-birth diseases and also from abortion. No prophylactic or remedial measures known to the farmer who, like most of his type, merely tries to sell sick stock for slaughtering and replaces with new.
(iii) No real control of lactations and most of milking goats are mated between September and February. Is reluctant to try summer serving since suffering losses in 1956. Regards yield of 2 lbs. per day as minimal.

H. General.

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This farmer is typical of many herdsmen. Without capital or land he derives from previous generations of peripatetic herdsmen who milked their goats on the 'rounds' of urban houses. Now forced to sell his milk to a centralised agency (the M.M.U.) for pasteurisation he is protected from price decline during the summer season of over-production but prevented from obtaining extra profits and perquisites (often of rather a dubious character). Without capital he has to rely on credit terms for fodder purchases and therefore pays merchant prices which are higher than those of other farmers. A garden plot and the stock supplies about half the family's food, without which increment the family economy could not operate. There is no possible future except on a low level for this type of production.

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CASE VI : Gaetu (A milk producer with a considerable land holding.)

In May, 1957, Gaetu had 9 cows and about 50 goats. During the year he sold some thirteen goats for the abattoir and of the eight kids born in the year several died "because they didn't want to go on living". In November of the same year three of his cows had to be killed, two of them on account of 'paralysis of the feet' (probably related to lack of exercise and perpetual stall-feeding). The goats get scarcely more grazing than the cows, being limited to the small yards adjoining the main farm building (v. Map 8).

The compulsory slaughter of the three ailing cows (for which he will be entitled to import replacements) has profoundly shaken Gaetu's faith in cows in general. He maintains that he "will put his efforts into goats for the loss of a goat means a loss of £10 against the £200 in the case of a cow."

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234
[311]
[246]
[435]
[464]

Together with his adult son, Gaetu works 23 tmien of land, including some which is irrigable; and the emphasis in cropping is heavily on fodder production. But they still have to buy in a considerable amount of feed. For example in the 1956-57 winter Gaetu spent £175 on sulla, £99 for straw, and £15 on winter potatoes which were in glut. He feeds his animals according to yield which appears to mean that he gives more food and attention to the better yielding animals. "There is no profit in providing expensive fodder for poor-yielding animals." In fact, however, Gaetu has very little appreciation of his profit. None of his labour or that of his son is counted as a cost and he keeps no detailed account of income and expenditure. He gets receipts from the M.M.U. but otherwise, being illiterate himself, feels "reluctant to ask anyone for a written statement". Nevertheless he reckons to be able to put together some sort of balance sheet for the income-tax authorities each year.

[451]

[65]

*159 C. Livestock.
231 - 50 goats
234 - 2 cows, 3 calves, expecting to add 3 imported Friesians at c.£140 each.
- Chickens: buys unsexed chickens at 30-40/- for 50 in the hope of gaining egg producers. (Sexed females would cost 112/- for 50).

*159 D. Capital.
42 - The farmhouse and buildings are owned, though the exercise yards are rented (v. Map 8).
454 - Seems to have a small capital reserve but is unwilling to spend this on equipment, which he prefers to buy with the aid of a govt. loan.
- Some £1200 amassed during the war has now been largely spent, in part on the house but mainly on purchase of stock.
[407] - No mechanical equipment apart from a motor-pump bought for £68 in 1948.
- Tractor plows hired at £1 per tonna when necessary.

E. Labour.
*159 - No permanent hired labour, but two youths employed at 10/- each per day, all found, for c.3 months of the year, and occasional hire of neighbours' sons.
464 - Full time workers: the farmer and his married son: no female labour is employed.
- The farmer is the only one of 7 brothers who have remained in farming.

*159 F. Production and Sales.
43 - Goats' milk to M.M.U. varies between 5 and 10 galls. daily, plus c.7 galls. cows milk. Probable income from these sources well over £1000 p.a.
- Against this must be set considerable expenditure on fodder, records of which are not kept. Sulla may cost up to £300 p.a. Straw may cost up to £125 p.a. Beans and cake at £3.10.0 and £2.18.6 per qantar respectively.
- Secondary small sources of income include "private sales" of milk, sales of vegetables and manure.
These incomplete accounts suggest a modest profit, but this has not prevented disappearance of war accumulated capital reserves. (See D: Capital).

G. Husbandry.
*159 - Feeds according to yield. Large scale purchases of fodder necessary, despite quite careful attention
231 to holding.
234 - Feeds vegetables (including potatoes) when these are cheap owing to glut; when this is done, bean ration is reduced.
- Rations are doubled for cows in calf.
- Cows are exercised in yard but never grazed.
- Goats grazed on waste and fodder fields.

H. General.
*159 - When asked whether he considered himself to be herdsman or farmer, replied that he might be regarded as
● 433 a "general dealer" in crops and animals.
- In fact his enterprise is overwhelmingly directed towards production of milk and is yet another dependent on the guaranteed milk price.
- Fields are definitely secondary, though well-tended and are primarily for the provision of fodder.
- This farmer appears to make a modest profit from his enterprise, but has no appreciation of the costs involved.

159 - Has a higher opinion of his ability as a stock farmer than facts warrant.
156 - Aims to build up cattle herd in place of goats since he assumes (with no factual background) that profit will be greater.
[231] - Much influenced by personalities and is willing to accept advice uncritically if the person giving it is, in his opinion, sound.
- Lacks educational background and experience necessary to make a real profit from his herd, but seems content with present living conditions.

CASE VIII : Niklaws (A working partnership of five brothers with diversified production)

159 402 [423] [234] Niklaws is the primus inter pares in a permanent partnership of five brothers. The syndicate farms some 70 tmien and, in February, 1957, had a herd of thirty cattle. There is some division of labour among the five, with one being acknowledged the expert on cattle, another "knows most about the fields", and a third the driver and general business manager. Both their father, who died in 1915, and their grandfather were farmers but the brothers have considerably added to the holding.

159 402 234 433 The emphasis of the partnership is now heavily on cows' milk production. They retain only two goats. With about 20 cows in milk they aim to produce some 50 gallons a day - Niklaws observes that the yield from cows can be maintained while that of goats fluctuates markedly with the seasons. Costs of cows' milk production are also steadier, says [232] Niklaws, with fresh greenery in the winter and prickly pear in the summer months as supplements to the standard items of diet. The fodder produced on the brothers' own fields has to be supplemented by purchased feed but judicious use is made of vegetables in glut, especially cauliflowers which could be bought by the farmer at 1s per sack in early 1957.

159 407 454 234 [429] Mechanization on the farm includes the hiring of a mould-board and tractor to deep-plow the land every fourth year (cost - £1 per tomna), and the hiring of a threshing machine. The brothers themselves own two hand cultivators and a small van, complete with the partnership insignia on the door. Currently much capital is being put into building a large, two-storey cows' shed within the village. The brothers aim to centralise their milk herd here and plan to have an adjacent exercise yard and water tank. At present their animals are divided among three widely separated byres, although all of these are easily accessible by road - and the van. [435] One of the existing sheds was built between 1949 and 1952 at a cost of "£3,000". On the costs of the present building Niklaws will divulge nothing. His attitude suggests that the money is coming from saved reserves rather than a loan, for he appears reluctant to borrow money even on low interest terms "because anything might happen to prevent the money being repaid."

159 241 (ii) The intensive summer utilisation of the land for unirrigated summer vegetables is characteristic of this region. Tomatoes and brassicas are dominant. Vetches and beans are grown as catch-crops in small patches. This type of cropping sequence i.e. potatoes, vegetables, cereals, sulla, is typical of well-developed Maltese mixed-farming.

159 C. Livestock.

159 23 (i) c.33 head of cattle including 20-22 milch cows, 1 stud bull, 2 bull calves for fattening.

234 (ii) 2 goats, 1 mule, 1 pony, 12 hens.

(iii) The cattle-herd has been built up since 1940.

159 D. Capital.

159 [472] (i) The accepted leader of this partnership enterprise is typical of the more commercially minded and successful Maltese farmers in that he was prepared to discuss anything except financial details. The amount of capital of property and even the details of land-holding of this "kulak" class is known accurately by nobody.

[407] [343] [454] (ii) Equipment includes 1 van, 1 hand tractor, 2 water pumps and two large cattle byres. At local values, farm buildings and mechanised equipment represents over £8,000 investment.

[426] (iii) This partnership prefers to indulge in small-scale family borrowing and lending rather than to use official-and controlled- credit facilities.

[423] (iv) Two village houses and over 3 tmien of land are owned freehold.

E. Labour.

159 464 (i) Partnership labour force totals 6 full-time farm-workers (5 brothers and 1 adult son).

(ii) A youth employed full-time with cattle.

407 (iii) All plots are deep-plowed by crawler tractor every fourth year at cost of £1 per tomna.

427 (iv) On this relatively level land a varying fraction of cereal reaping is done by machine. Machine cutting costs £1 a tomna, hand harvesting £3 a tomna. Hand cutting is less wasteful of straw but these farmers have a rare appreciation of the importance of the time-element in their complex economic and land-use system.

F. Production and Sales.

159 433 (i) The only certain information obtainable is of sales of cows milk. During 1957 minimum daily sales averaged 283 lbs. during May, and the maximum of 350 lbs. during March was almost matched in August and the following January. This constancy of sales based on a firm intention to allow production to vary but slightly from an average of 30 gallons a day from 20 milch cows is rarely found in Malta and is typical only of a few technically advanced and commercially minded farmers.

159 48 (ii) The partnership although possessing a stud bull usually buys cows in milk (preferably Ayrshires), a 'good' yielder costing c.£210. Breeding and raising heifers if regarded as unprofitable.

(iii) The main sales of arable produce consist of summer cauliflowers and tomatoes. In an effort to avoid the usual glut of summer brassicas considerable importance is attached to extending the season of production into autumn and winter. Price variations are considerable e.g. In 1956 cauliflower prices dropped to 1/- a sack while in 1956 they had risen to 20/- a sack.

* M. General.

159 (i) In some of its characteristics this type of syndi-
472 cate is not typical of Maltese farming systems. e
451 The partnership seems to derive historically from a line of large farmers and is now held together by the drive and ability of one of their number.

*159 (ii) Nevertheless if one ignores the partnership organ-
472 isation one may use this case-study as illustrating
451 the practises and modes of thought of the most
181 highly developed type of Maltese farmer.

- Characteristically there is a marked reluctance to give any financial information. Official records and returns are even less accurate than in the case of smaller-scale and more ignorant cultivators. Some records are certainly kept by the group but individual shares in gross income do not seem to be formally arranged. There does no seem even here to be either a monetary evaluation of their own labour or any assessment of net profit as distinct from gross income. Receipts appear to go into a central treasury which is drawn on by agreement over each specific case.
- Although there is present considerable financial acumen this is a matter of peasant shrewdness rather than any real commercial understanding.

*159 - Yields are good - tomatoes will average 15 qantar
● 433 per tomna, grapes 10 qantar per tomna, but these
181 are attained by the careful application of
242 proverbial wisdom and not by the possession of better scientific understanding than their neighbours.

*159 - In spite of the fact that the syndicate's
181 capital reserves and their practical abilities
232 are considerable, the physical environment dom-
242 inates their actions. They are not prepared to experiment themselves and they look askance at those who are. One has an unhappy feeling that as already noted, their very success with traditional methods inhibits their acceptance of new ones. Thus even with farmers such as these there is a great mental gulf between them and typical farmers of Northern Europe and between them and their advisers.

*159 CASE IX : Antnin & Gakbu (A long-established
472 partnership of two unrelated stock farmers now engaged in
464 cows' milk production.)

Both these men are married and occupy houses in the same street. They have operated as a single farming unit during their whole working lives and it is not always clear whether even they can distinguish which property belongs to each. The teenage eldest sons of each man work full-time with their fathers whose wives occasionally assist with field-work.

* 159 Some few years ago the two friends had 36 goats. By
178 1958 only two remained and the emphasis had swung to cows'
234 milk production. In 1956 they had about 18 cows; eighteen months later the joint herd had doubled in size. Their aim has been to build up as large a herd as possible as quickly as possible in order to benefit from the guaranteed price offered by the M.M.U. for milk produced. The two men insist that they are at the same time striving to build up a

159 178 234 substantial herd to hand over to their sons who, however, show no inclination to stay in farming.

*159 232 829 234 A glance at their herd reveals their interest to be in quantity rather than quality. They admit, moreover, that they lack a good deal of knowledge on management of a herd of this size. A number of their cattle die from diseases and ailments of which Antnin and Ġakbu have little appreciation - official sources revealed that two which died in 1957 had anthrax. Their own inclination is to slaughter an ailing animal for meat before it dies naturally. If a cow dies without replacement from the Government they become very resentful. They also suffer a high death rate among imported calves and again blame 'Government'. "The Government never tells us anything about the rearing of animals" assert the two men somewhat naively since they also maintain that "no-one but the farmers knows farming".

*159 234 231 In 1958, twelve of the cattle were Bastard-Inglisi type As the sanitary authorities would not grant a license for a larger herd to occupy the present makeshift accommodation (a patch-work, corrugated iron shed) Antnin and Ġakbu aimed to replace these Bastard-Inglisi with the same number of Friesian stock, though would have preferred to have gone on increasing the number in their herd - and thereby the amount of milk sold to the M.M.U.

*159 234 433 (246) Antnin insists that "cows yield according to the amount they are fed". When asked for an estimate of the cost of producing a gallon of milk he asks "Who knows?" ("Min jaf?"). The fields held by the two men produce a considerable amount of fodder but much more has to be purchased. During glut conditions they feed very cheap cauliflower and, in the dry months between June and September, give the herd prickly pear at the rate of a lorry-load per day. They are almost unique among cows' milk producers in Malta and Gozo in that they are able to graze their animals on War Department land nearby although they have no guarantee of tenure.

*159 434 426 Despite the large holding of land and the recent rapid increase in the size of the herd, the financial position of Antnin and Ġakbu is precarious in the extreme. They are operating in a permanent state of DEBT, and have a fluctuating debit account with the dealer who supplies them with fodder (cf. Case V). This makes them reluctant to take on any new debts at high interest rates. The Government loans at 1% do however appeal to them as means of buying more cattle and still further increasing their milk production. Their debt is such that the two friends can rarely keep female calves but have to sell them to pay hire-purchase instalments on cows.

*159 231 The cattle are very mixed in breed including "Bastard-Inglizi", supposedly pure Friesians and crosses between the two.

*159 D. Capital.

(i) No freehold property.

426 (ii) In perpetual debt, no reserves and frequent borrowings, particularly from the Government.

[423]

(iii) Equipment - usual hand tools

[454] - rotary cultivator bought with a Government loan of £550, repayable at £100 p.a. plus 1% interest.

[407] - small motor van, bought in 1953, for transport of milk.

[312] - no piped water until Feb. 1958.

E. Labour.

*159 464
- No permanent hired labour.
- One man and his daughter together at 30/- per diem and one youth at 25/- engaged at busy times.
- Family labour: two partners and their two eldest sons work full-time and there is additional help from wives and children.

F. Production and Sales.

*159 434 435
- Income almost entirely from sale of milk to M.M.U. Production varies greatly: June 1957: 50 galls. daily; Dec. 1957: 35; Feb. 1958: 80. Sold at 5/6 to 6/- per gall.
- Male calves sold to butcher at £10; females sometimes sold at £30-£40 to pay debts.
- No accounts kept of feeding costs. These include one truckload of prickly pear (30/-) daily from June to October, beans at 55/- per qantar and cake at 46/- (July 1957). A considerable amount of grazing is carried out e.g. on sulla bought green at £6 per tonne.
- Potato sales insignificant and in 1957, owing to glut, involved a loss.

●[433]
- Vegetables produced are all consumed by the families.

G. Husbandry.

*159 231 (i) - The importance attached to grazing of cattle is unusual. (Most Maltese cattle are stall-fed all the year.)
- The emphasis is on numbers of stock rather than on their quality. The turn-over from goats to cattle has been helped by the government exchange scheme and by Govt. loans.

[232]
- Occasional outbreaks of disease unnoticed until too late.

[241] (ii) - Crops are often neglected owing to time involved in animal husbandry.

*159 234 829 H. General.

The partnership is attempting to profit from guaranteed milk prices without the knowledge or skill to do so. The herd seems to have been built up beyond the numbers which can be properly tended by the labour available.

There is little knowledge of modern methods and still less of costs and returns. The view is firmly held that "cows yield according to the amount they are fed" and the reply to the question "How much fodder is required to produce a gallon of milk was "Min jaf?" (Who knows?).

The partners are extremely conservative in their attitude to marketing, suspicious of outside interference and hostile towards the idea of co-operatives. Yet they expect

[426] continued Government assistance.

Their general pessimistic attitude is summed up: "Il-biedja f'Malta spiċċat" (Farming in Malta is finished).

Despite guaranteed milk prices on which the whole economy is based, the partnership is permanently in debt.

159 Their failure to profit contrasts with the success of the
829 Gozitan milk producer, Case I.
234 The partnership's main aim is to accumulate cattle with-
[433] in the current artificial economy of milk production. There is no thought or care for what might happen if the subsidy were removed or even reduced.

CASE X : Ġamri (An arable farmer in partnership with a brother and engaged in diversified production.)

*159 Ġamri is an arable farmer, specialising in fruit. He
241 has a couple of goats and sheep, a mule, and is keen to
231 acquire more pigs for fattening. Most of his effort is how-
427 ever centred on the land holding which he and his brother work
402 in partnership. Some fifty-three tmien are rented by the two brothers together while Ġamri himself rents a further ten tmien. About two-thirds of the land (17 plots) is owned by private landlords, one sixth belongs to the Church, one tenth to the Government and the remainder - about an acre - is owned by Ġamri's father.

*159 The working partnership of the two brothers is of many
402 years' standing. The brother's eldest son now works full-
464 time alongside the two men. The brothers say they could not
241 cope with any more land than they are working at present. They share the common view that hired farm labour is both uneconomic (at 25s or more for an eight-hour day) and inefficient. The land worked by the partnership is dry (bagħli) apart from two irrigable (saqwi) tmien. In 1957 it was utilized as follows:

[311]

Fruit and vines.....	21 tmien
Cereals and fodders.....	18 tmien
Fallow, unproductive, or sub-let.....	13 tmien
Potatoes.....	6 tmien
Other vegetables.....	5 tmien

*159 Apples are the biggest single cash crop and the overall
245 success of any year depends on them. They were introduced
242 to the district by Ġamri's father some years ago and now grow in large numbers in a sheltered valley along with lemons, oranges, mulberries, figs, cherry-plums and other fruits. The produce is good but is usually affected by some pest or disease. The most prevalent of these is a boring grub. Ġamri and his brother spend a large part of September and October simply gouging this pest from the trunks of affected trees - with penknife and piece of wire. They regard this time-consuming and unremunerative task fatalistically. But of late Ġamri has been wondering whether the same result might not be achieved in a fraction of the time by the application of some spray. He knows nothing of the details of this and is more than a little doubtful of possibilities.

*159 Since 1953 Ġamri and his brother have expanded their
245 area under vines, buying seedlings from the Government Farm
[435] at 1d each. They consider vines the most profitable of crops, especially grapes for wine since these can be picked

159 407 427

paying his share of petrol and oil but making no payment for use of the machine. When used on Ò's personal holding, a charge of 16/- per tomna was made, compared with normal charge to outsiders of c.£1 per tomna.

- 4 yearly deep plowing by contractor at 25/- per tomna.

E. Labour.

*159 464

- Ò's 8 children all below school-leaving age contribute relatively little. His brother, however, has 3 sons working with him and his family provides more than half the labour on the joint holding.
- Flexible use of this labour force as:

(a) Joint holding worked by partners and Ò's nephew.
(b) Land held by Ò, deriving from wife's family, farmed by Ò and eldest nephew.
(c) Land held by Ò's brother, deriving from his wife's family, farmed by himself and his two younger sons.

*159 461

- A detailed work schedule was kept for the agricultural year 1957-8: see Table 6 - WORK ANALYSIS.

(a) Work on crop land, including cultivation, manuring, sowing, irrigation, crop protection, harvesting and transport of produce:-

(i) On joint holding:	Fruit	1740	man hours
	Vines	489	" "
	Cereals & Fodders	1437	" "
	Potatoes	868	" "
	Other vegetables	505	" "
(ii) On Ò's own holding	Vines	444	" "
	Cereals & Fodders	222	" "
	Vegetables	65	" "
(b) Other work connecting with holding		109	" "
(c) Repair of storm damage		160	" "
(d) Building of pig sties		100	" "
(e) Miscellaneous		677	" "
	Total	6816	" "

In short a total of 6816 man hours is applied to c.60 tmien of land (excluding contractors' plowing etc.) an average of 113 man hours per tomna.

*159 434 241

F. Production and Sales.

(1) - Details of yields of individual crops not available, but cash income from sale of crops 1956-7 was as follows:-

	From partnership land	From Ò's land	Total
Fruit	£340	-	£340
Grapes	£ 49	£ 8	£ 57
Sulla	£ 13	£15	£ 28
Potatoes	£ 12	-	£ 12
Melons	£ 11	-	£ 11
Tomatoes	£ 7 (est.)	£13	£ 20
Totals	£432	£36	£468
Ò's share	£216	£36	£252

- This represents a poor year; potatoes prices low, sulla yields below average, glut of fruit.

*159 241 433 434

- Yields and income vary greatly from one field to another. Valuing the proportion of the crop retained at same level as that sold, e.g. sulla yielded from ££.10.0 to £15 per tomna, fruit £28 per tomna,

159 241 434 433

tomatoes £18.10.0 and grapes from £8 to £18.

- Measured yields include:-

Grapes:	4.2 tmien	11.4 qnatar
Winter sown potatoes (irrigated):	2.0 tmien	6.8 qnatar
Autumn sown potatoes (dry):	3.3 tmien	7.6 qnatar
Green beans in pod:	1.5 tmien	600 rtal
Wheat (threshed):	6.7 tmien	31.5 tmien
Sulla:	1.0 tomna	13 hmiel
	1.0 tomna	20 hmiel
	3.0 tmien	10 hmiel
Vetches:	0.7 tomna	6.5 hmiel
	2.0 tomna	7.0 hmiel

- Thus, comparing these figures with figures for labour applied, cash receipts per man-day were £2 for fruit, £1.10.0 for grapes and £1 for sulla. Were labour applied to be costed at prevailing rates of 20/- to 25/- per man-day, a large loss on the year's working would result.

*159 241 433 (2). A large proportion of the produce is retained for consumption by the family and by its small number of stock. In 1956/7 one quarter of joint holding and one third of O's own land produced entirely for home consumption.

*159 241 6. Husbandry.

(1)- Rotations not strictly adhered to, but common sequences are:
(a) on good land
1st Yr: Manuring followed by potatoes or by winter fallow and summer crop (tomatoes or melons).
2nd Yr: Potatoes or tomatoes.
3rd Yr: Sulla.
4th Yr: Wheat.
(b) on poorer dry land an alternation of sulla or vetches with cereals.
(c) best irrigated land may carry 2 crops of potatoes in each of several successive years but more usually tomatoes or melons follow winter-sown potatoes and autumn-sown potatoes are then omitted.
(d) fields may be irrigated in alternate years only, with dry land crops (cereals, beans, onions) in non-irrigated years.

(2)- Common cultivation methods:
(a) Vines: land worked 3 times with tined hoes during late winter and early spring. Ammonium sulphate worked in during second cultivation.
(b) Tomatoes: surface scattering of manure followed by deep plowing (summer). Worked four times with wooden plow in winter and subsequently reduced to fine tilth with hoe before planting seedlings.
(c) Wheat: land worked twice with wooden plow in October, seed scattered broadcast and plowed in immediately.
(d) Melons: land worked six times during autumn, winter and early spring, four times with wooden plow, twice with rotary cultivator. Seed sown and watered in early April.
(e) Beans: land deep-plowed during summer and worked twice with wooden plow. Hoed during planting.

(3)- Seeds. Average rates of application:-
(a) Sulla (new crop) c.10 tmien (weight) per tomna of land, seed obtained from previous year's crop.
(b) Wheat and barley 4 sighan (weight) per tomna, generally from previous crop but may be purchased at c.3/- per sighan.
(c) Beans. 1 tomna (weight) per tomna of land.
(d) Potatoes are the only seed regularly purchased, Arran Banner and other Scottish varieties bought (v. after Table 6)

[Text continues on P.124]

*159 24 31 The larger pieces of ground are put to potatoes, tomatoes, artichokes (qaqoċċ), marrows (qargħa bagħli), and a variety of vegetables. Fig, pomegranate and other trees fill the corners and edges of fields and a tomato seed-bed and a hen-house also manage to find space in odd corners. [406] [343] [134] Two machine-driven pumps and a few tiny storage and shelter rooms complete the scene. The block of fields is in a small sheltered valley on the east coast of the Island and contains clay soils tending to be heavy, especially in wet weather.

*159 241 433 434 829 [464] Pietru's irrigable fields are clearly the focus of his interest and attention. He observes that they bring in a greater profit per man/day of effort than do the dry fields which he prefers to leave to the wife and children to cultivate on a more casual basis. Nevertheless Pietru is not able to make a profitable concern of his farm despite his own heavy working schedule and the full-time assistance of at least two teenage children. In fact he is poor enough to qualify for C.A.R.E.[27] food distributions. He is however content with farming as an occupation and critical only of the lack of adequate remuneration. His attitude is to 'make the most' of his farm within current limitations. He was a [474] founder member of a C.A.R.E. sponsored tractor co-operative (Section 2) although he admits that when the project was first suggested he was opposed to it on the grounds of rather having the money than letting the Government get it. This belief that the Government is behind everything is characteristic (Section 4). C.A.R.E. is of course an independent organization distributing American surplus food and equipment.

*159 178 241 Thus Pietru's son who works full-time with his father is faced with his father's industry and enthusiasm for farming on the one hand but he can see for himself the apparent impossibility of achieving anything above low living standards. Whether he will join the trek away from farming is not yet clear. His educational standard is lower than is the case among many of his generation and it may be that he will have difficulty in finding employment outside farming.

If Pietru can improve the efficiency and profitabily of his farm (by using better suited crops, new methods and new equipment with Government financial and advisory assistance) his son might be pursuaded to stay in it. The problem of Maltese farming today is that there are very few young men in the farming industry who show as much inclination to [412] [654] stay on the land. The Government has been keen to assist the full-time farmer with loans and other help in an effort to encourage him to stay on the land and to develop agriculture to the full but it has done comparatively little for the young men in farming who are, in the long term view at least, the more important. If they cannot be induced to stay in farming the industry would appear to be doomed.

TABLE 7

	July[f] 57		Oct 57		Nov 57		Dec 57		Jan 58		Feb 58		May 57	
	am.	pm	am.	pm	am.	pm	am.	pm	am.	pm	am.	pm	am.	pm
Sundays, feasts	4	4	4	4	6	6	7	7	6	6	5	5	7	7
Business, Valletta	.	.	.	.	1	.	1	.	.	.	.	.	.	.
Repairs fields & buildings (storm)	.	.	2	4[g]	1	3	.	.	.	.	.	.	.	.
No work (storm)	.	.	7	7[g]	6	3	3	3	8	7	2	2	.	.[j]
Irrigation	8	6[j]	1	2	.	.	.	.	.	.	.	2	8	5[j]
Plowing	3	2	5	3	.	.	.	.	3	3	1	1	2	2
Planting, sowing	.	.	4	3	6	6	12	11[a]	7	8[b]	4	1	7	2
Working, etc.	5	5	4	2	3	5	1	2	4	4	5	3	.	3
Cutting, reaping	8	6[d]	2	1	1	1	1	1	1	1	2	2	4	3
Lifting potatoes	.	.	.	.	.	.	.	.	.	.	3	3[h]	3	5[i]
Threshing	.	3	.	.	.	.	.	.	.	.	.	.	.	.
Loading, transporting	2	1	1	1	.	.	3	3	.	2	.	1	.	2
Vines, prune, graft	.	.	.	.	.	.	.	.	.	.	6	7	.	.
Collecting kemix[e]	1	1	1	4	5	5[k]	3	4	1	.	.	3	.	2
Collecting greenery			.	.	1	1	.	.	1	.	.	.	.	.
	31	31	31	31	30	30	31	31	31	31	28	28	31	31

Notes

a. all potatoes.
b. potatoes 3.5.
c. working, weeding, dressing, spraying, manuring, hoeing, etc.
d. wheat and barley 4.2.
e. kemix - general greenery for animal fodder.
f. data for other months not available.
g. the latter part of 1957 saw exceptional storms in Malta & Gozo.
h. the winter crop a month late on account of damp conditions.
i. the spring crop.
j. irrigation in dry months.
k. kemix gathering peak after 2 months of rain.
l. including 2.2 attending to animals (too wet to work fields).

F. Production and Sales.

(i) Main cash-crop irrigated potatoes - Arran Banner. Two crops - winter and 'early' crop, the latter for export. Yields vary considerably in spite of irrigation - winter crop 1956 double the quantity of the winter crop 1957. Soil conditions for cultivation and for germination can vary critically between November and February. Prices similarly vary considerably. 1956 - maximum price obtained 30/- per qantar. 1957 - April maximum price obtain 25/- per qantar. 1957 - May maximum price obtained 15/- per qantar.

(ii) Tomatoes. Pickings from May to October with peak production in July. Prices vary inversely with production (E/253). Irrigated local varieties only are grown. The best tomatoes are kept for seed, the next grade carefully selected for sale through 'pitkal' middleman for local market, the third grade sold to the tomato paste ('Kunserva') factory. Prices range from 10d. to 1/6d. per wizna, but vary with quantity available rather than with quality. Regarded as preferable to potatoes since the farmer believes they are less expensive to produce.

(iii) Artichokes. Irrigated perennials producing for up to about 8 years. Best marketing period is during Lent. Great efforts made to raise a crop early in

*159 433 435 February when prices start at c.9d a head rather than later in the year when they drop to c.4d a head.

(iv) A variety of other vegetable produce fruit and grapes are sold in small quantities.

(v) Stated cash income - £200 per annum. Regular income comes from arable products. Every two or three years sales of young heifers in calf bring in sizeable sums e.g. in 1958 one such Friesian heifer was sold for £170 and a 3 month old calf bought for £61.10.0.

G. Husbandry.

*159 241 (i) Land:

(a) Main concentration on maintaining high yields of vegetable crops on irrigated land, usually by heavy manuring rather than rotational farming. In 1956 - used all dung from own livestock.
- Purchased £100 worth of dung from an urban milk producer.
- Applied 25 bags sulphate of ammonia @ 25/- to 27/6d a bag.
- Collected several cartloads of mixed refuse from Government centre.
Dung applied directly to cucurbits, but mixed with refuse and sulphate of ammonia otherwise.

(b) On non-irrigated land crop sequence usually cereal, leguminous fodder, potatoes, except on poorest land where vetches alternate with barley.

[461] (c) Irrigation takes much of labour-time and water is applied empirically. A typical early potato crop will be watered 13 times, each watering by channel-and-bed control taking 1½ days.

[242] (d) Chemical treatment of the crops is accepted but not understood. Since 1953 Chloride of Lime and Copper Sulphate sprays have been used but the farmer is not at all sure of why they should help - the sprays are applied "when the potatoes show a blackness". This exemplifies a general attitude that certain pests and diseases can be treated with one or another of the "medicines" but considerable mystery surrounds the methods of application and the processes concerned.

(ii) Seeds:
Relies entirely on seed plant strains except for potatoes. Is prepared periodically to buy Arran Banner seed-potatoes and in 1958 plucked up enough courage to try a new strain - Eigenheimer.

*159 231 (iii) Livestock:
Only interested in rearing heifers which are fed traditionally on a little grain, green fodder including "haxix", sulla, hay and beans.

H. General.

*159 241 433 435 [465] (i) An example of better kind of intensive market gardener. It is unlikely that without a complete re-organisation of his farming life any more irrigated land could be worked. At present casual labour costs of 15/- to 25/- a day, expansion of the labour force would be impossible. The only relatively simple economic improvement that could be made is the raising of quality standards and to a limited extent yields. In Malta there is no effective price differential between products of different quality, and the local market is very quickly saturated. This cultivator and others like him vaguely realise the predicament and pin their faith on minimum price guarantees, which in fact have little to do with the case.

*159 451 (ii) The farmers children keep rough accounts but only of the main items of disbursements and income. This is one of the few farmers who occasionally put a monetary value on his own labour. That of the family was taken for granted.

F. Production and Sales.

*159 433 434 234 [272] (i) Cows milk sales range from December minimum of c.153 lbs. per day to April maximum of c.290 lbs. per day. Regards 3 gallon output per head a day as minimum profitable production. Milk receipts in 1957 c.£1350. (Costs of purchased fodder £1000).
- Goats milk sold for cheesemaking ('rikotta').
- About 20 gallons per annum of cows milk for cheese production.
- Practically no liquid milk drunk by family.

*159 241 [435] [433] (ii) Potatoes - Winter Crop - September to December.
- 'Early' Crop - January to April.
Relies entirely on Arran Banner. Destination of crop depends on price e.g. Winter Crop 1956/57 sold at 25/- per qantar for export. Winter Crop 1957/58 sold at 27/- per qantar for local market.
- Usually produces c.50 qantar per annum and 4 or 5 used for domestic consumption.

[433] (iii) Onions produced for export and local market and for home consumption. Production fluctuates with climate - yields between extremes of 20 and 40 qantar per tomna.

(iv) - Small sales of vegetables - considerable range grown.
- Fodder production meets c.one-half requirements.

G. Husbandry.

(i) Land
(a) On best land typical sequence would be.

Sept.	(a)	Heavy manuring - 96 bags of dung and refuse per tomna.
Sept.-Dec.	(b)	Winter crop of potatoes.
Jan.	(c)	Artifical fertiliser - Sulphate of Ammonia 1 bag per tomna.
Jan.-April	(d)	Spring crop of potatoes.
May-Aug.	(e)	Summer fallow.
Sept.-April	(f)	Two crops of potatoes as (a) to (d).
May-Aug.	(g)	Onions - on watered land.
Sept.-May	(h)	Cultivation for and growing of wheat crop.
May-Aug.	(i)	Fallow.
Sept.-April	(j)	Sulla.

(b) More usual practice (which is not though of as a strict rotation) is local variation of four-year cycle.
- Manuring. Potatoes, Onions, Wheat, Sulla, Vetches and seed fodders such as Lorra and Ginglin are introduced into this basic scheme.
(c) On fields near house domestic vegetable crops, e.g. garlic, brassicas, pumpkins, and marrows.

(ii) Seeds
- Mainly relies on own seed but periodically buys seed-potatoes for maintaining standard of 'early' crop.

*159 232 (iii) Livestock - Breeds cattle from own stock but prepared to experiment e.g. interested in artificial insemination.
- Feeding. Has a fair idea of fodder needs of livestock but uses traditional combination of green legumes, sulla hay, beans and concentrates without measurement. Has started purchasing ready-mixed balanced feed.

H. General.

*159 433 451 (i) An example of the best type of cows' milk producer. Keeps rough accounts of expenditure and receipts from most of sales but even so does not think in terms of profit-income and does not compute family labour in monetary terms at all.

(ii) Is tending towards specialising in cattle-breeding and is inclined to doubt the value of the arable sector. Is typical of most of his class in that he keeps no accounts of fodder-production on his own

*159 133 451 land but maintains that it is becoming uneconomic because of high labour costs and difficulty of raising yields any further.

(iii) Makes careful practical distinctions between types of land:

*159 134 241
- some fields have 8 inches of soil on rock platform and these can only be worked by hand.
- deeper soils up to 3 feet thick need periodic deep plowing although this may result in the bringing to the surface of "newba" (or "melà" - salt) - sub-surface saline concentration with harmful results.
- red and white soils have different characteristics for tillage and crop-growth.
- notes the presence of a thin, very hard weathered layer on top of Globigerina bed rock. This "skorża tal-blat" is believed to prevent the movement of moisture from the rock water-table to overlying soil.

*159 159 626 (iv) In spite of literacy, general initiative and acumen he is conservative about trying new ideas. Here, as elsewhere, the chief obstacle appears to be social rather than economic - the fear of being different and the fear of failure in the eyes of the rest of the community.

*159 829 (v) In spite of (possibly because of) experience in check-weighing, is no more prepared to trust M.M.U. and official marketing agencies than any other farmer.

CASE XIII : Toni (A part-time arable farmer and caretaker of a military camp.)

*159 241 434 An example of part-time farming in which the field operations are the subsidiary part of the business - from the financial point of view though not as regards the amount of time spent on them.

His caretaking duties bring him some £5 per week for most of the year and yet leave him with enough free time to cultivate several irrigable patches near the camp. Now aged nearly seventy he works a much smaller total area than the thirty tmien of his younger days. He could in fact live on his income from his caretaking and continues to work the fields for four reasons:

(a) To provide food for his present family of three,
(b) To produce a supplementary income from the sale of cash crops,
(c) To occupy his time with the farming which he knows - as something of a hobby,
(d) To provide his emigrated sons each "with a piece of land" when they return to Malta for their retirement.

241 178 46 *[159] Items (b) and (c) reflect his independence of farming for the maintenance of himself and his wife and daughter, while (c) and (d) suggest that although farming ceases to be the countryman's livlihood he inclines to retain a residual interest in it even when he has been away from Malta for the greater part of his working life. This is a characteristic [369] feature of rural Malta and an important aspect of the recent increase in part-time farming. The 1957 Census of Agri- [162] culture lists 9,588 part-time as against 7,813 full-time farmers (B/164, p.20). The trend towards part- in place of full-time farming is significant in the present overall retreat from agriculture. It represents in many cases a

*159 [464] - to find farm labourers even at 25 to 30/- a day.
- Occasional hired help at harvest time.

F. Production and Sales.

[434] - Main profit from tomatoes, grapes and potatoes. Subsidiary income from vegetables.
[433] - Attempts to space out production and sales by using
[251] many different varieties and storing, e.g. potatoes until prices are high.

G. Husbandry.

*159 241 43 (i) - Potatoes: three crops annually on best land.
- Artichokes: replanted every 4 years.
- Tomatoes: seed beds attached to irrigated plots carry many varieties.
- Melons: has experimented successfully with seed sent by relative in Canada.
- Cauliflowers: 4 crops between August and March, earliest sold before heads are formed.

(ii) - Manure brought from Luqa: 4 truckloads - £22 plus £8 for carriage will last one year.
Also uses town refuse.
- Copper sulphate spray for potatoes, paraffin spray as weed killer.

(iii) - Has recently added to holding by reclamation of wasteland. Constructed a 2-tmion field, soil for which cost £150 (20 truckloads) and transport £50. This field returned £60 worth of potatoes in first year, £35 of tomatoes in the second. In autumn 1957 was preparing to repeat the process.

(iv) - Irrigated land rested under sulla every fourth year.

H. General.

*159 242 [463] [465] An unusually proficient part-timer cushioned by income from position as camp caretaker (£5.12.0 per week when camp not fully occupied). His job appears to leave him plenty of time to devote to his holding. He is willing to experiment and take risks, though experiments are concealed from his neighbours until proved successful. Has a lively appreciation of how to obtain best returns from his produce; very much au fait with market conditions.

*159 434 [451] Keeps fairly careful accounts and, according to his own statements, makes a profit of £250 p.a. from farming:

Receipts from produce	£450
Labour costs	£ 50
Seeds, manure, transport	£150
Profit	£250

Value of produce consumed by family £30.

His two jobs have made him appreciably more prosperous than his neighbours. Without the subsidiary income from caretaking his financial position would be extremely precarious. As it is he is able to amass a considerable [454] capital reserve.

PART 2. Heavy Tractors and Maltese Farming.

*159 157 829 CASE XIV : Ġanni (A young, progressive contract-plowman, with heavy tractors and other mechanized equipment.)

Ġanni is a bachelor in his late twenties. In most respects he is quite atypical of Maltese farmers today but his work and attitudes illustrate most vividly the economic, technical and social problems facing agriculture and the rural community in Malta.

His youth, his knowledge of written and spoken English, his first hand acquaintance with Australia, the United Kingdome, Italy and other countries, his belief in mechanization as the way to make money in Maltese farming, his social

APPENDIX 1 D : Agriculture (B/164-1957)

131 (i) AREAS

AREA of the Maltese Islands.....	278,429 tmien	(77,400 ac)
Area of Malta.....	217,143 tmien	(60,800 ac)
Area of Gozo.....	59,286 tmien	(16,600 ac)
423 CULTIVABLE AREA of the Maltese Islands	156,211 tmien	(12,484 hldngs)
Holdings of dry (baghli) land....	116,460 tmien	(10,517 ")
Holdings of irrigable (saqwi)land	700 tmien	(88 holdings)
Holdings of both dry & irrigable.	38,051 tmien	(1,879 ")

241 (ii) ACREAGE and PRODUCTION of CROPS, 1956-57

433

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CROP	ACREAGE	VALUE(£)	YIELD(Tons)	YIELD per Acre (tons)
Wheat	5,192	96,908	2,916	0.6
Barley & Beella	4,836	68,339	2,738	0.6
Vetches	1,727	51,993	1,354	0.8
Forages	11,000	361,150(a)	32,000(a)	2.3
Broad Beans	1,000	15,233	356	3.5
Cumin Seed	14	180	3	0.2
Cotton	35	800	8	0.2
Locust Beans	500	20,000	1,500	3.0
Total	24,304	616,603	40,875	
Potatoes (spring)	6,000	350,000	21,000	3.5
Potatoes (autumn)	3,067	193,394	9,157	3.0
Melons	2,721	32,908	1,714	0.6
Onions	789	47,870	3,000	3.8
Tomatoes	3,000	146,000	12,000	4.0
Other vegetables	3,697	344,744	18,438	5.0
Total	19,259	1,115,016	65,307	
Grapes	5,204	171,102	5,347	1.0
Citrus	160	32,000	510	3.0
Other Fruit	1,000	105,000	4,000	2.0
Total	6,364	308,102	9,847	
Flowers & Seeds	250	100,000	..	
TOTAL	ac.50,177	£2,139,721	116,029 Tons	

(a) Including Straw.

231 (iii) CLASSIFICATION OF LIVESTOCK, 1957 (September)

	Malta 1957)	Gozo (1957)	TOTAL(1957)	TOTAL(1949)
Horses.....	1,688	369	2,057	2,753
Donkeys.....	1,732	1,107	2,839	3,335
Mules.....	1,535	349	1,884	2,351
Goats.....	21,630	10,428	32,058	
Billy Goats.....	417	177	594	50,877
Kids under 1 year...	3,364	3,121	6,685	
Sheep.....	8,091	4,241	12,332	
Rams.....	98	43	141	21,237
Lambs under 1 year..	1,015	1,330	2,345	
Bulls.....	377	294	671	
Heifers Pregnant....	339	195	534	
Heifers other.....	731	363	1,091	
Milch Cows.....	2,536	953	3,482	2,633
Stud Bulls.....	111	26	137	
Maltese Draught-Cows	109	6	115	
Imported Store Bulls	2,860	824	3,684	
Breeding Sows.....	2,793	588	3,381	
Boars.....	214	87	301	20,015
Sucking Pigs.....	935	367	1,302	
Other Fatteners.....	6,561	1,753	8,314	
Hens.....	186,683	126,630	322,313	
Other Poultry.....	5,145	1,364	6,509	
Rabbits.....	43,645	16,048	59,683	

9: Luke G-5 (ca. 1920-ca. 1960) 1960
EZ6 Malta EZ6

795 by one, as the names of their parishes are called out, advance
659 to the Governor's throne and present to him a large and
796 heavy wax candle, generally embellished with painted decorations.

This Candlemas ceremony has been maintained uninterruptedly from the days when the State was the Order of S. John; and the Governor takes this occasion, as did his predecessors the Grand Masters, to address the assembly on the problems of the day, with particular emphasis on the manner in which Church and State can best co-operate for the benefit of the people. It gives the Governor of Malta the same sort of opportunity, *mutatis mutandis*, to make public pronouncements on matters of policy as the British Prime Minister is given at the Lord Mayor's Banquet. A collation brings this happy and useful function to a close.

Here it may be added that the Governor retains, as the successor of the Grand Masters, certain ecclesiastical patronage, such as the nomination to the post of Dean of the Cathedral Chapter of Malta and the right of presentation to various benefices. A survival of another sort from the days of the Knights is the religious corporation known as the Collegiate Church of S. Paul's Grotto at Rabat, whose Canons still wear at their ceremonies the habit, *stolone* and cross of the Order.

241 The principal industry of the Maltese islands is agriculture,
•433 and the Maltese, despite the stony nature of their land, are skilful and industrious farmers with a wonderful knack of extracting the utmost from the soil, despite methods necessarily somewhat primitive since their fields are too small for modern agricultural machinery. Maltese potatoes and Maltese oranges have a high reputation. Vegetables are good, especially tomatoes; wheat does well where there
[439] is room to grow it. But the islands can produce only a fraction of their annual consumption of cereals, and much
251 has therefore to be imported from outside. Among the most
178 familiar features surviving from the era of the Knights are

9: Luke G-5 (ca. 1920-ca. 1960) 1960
EZ6 Malta EZ6

to the political parties and Her Majesty's Government. Farther efforts must, of course, be made, and it is Her Majesty's Government's intention to hold farther discussions in due course with a view to reintroducing elected representative government. In the meantime it is desirable that the present arrangements, under which the Governor is using his emergency powers under the present Constitution to govern the islands, should be terminated as soon as possible. Her Majesty's Government have accordingly no alternative but to revoke the present Constitution and to make special arrangements of an interim character for the government of Malta. This will necessitate legislation and a Bill will be introduced into Parliament after the House re-assembles. The form of government contemplated for this interim period is one in which the Governor will be assisted by a Council on which there will be Maltese representation.

7. During this interim period the Governor with the full support of Her Majesty's Government will press on with economic development. As was recognized in the 1955 Declaration to which the Maltese political leaders subscribe, Malta depends very heavily on Services expenditure and every effort must be made to develop other sources of income. Much has already been done since 1955 in laying the foundation for future industrial development, to which end Malta has received assistance amounting to some £18,000,000 from Her Majesty's Government.

8. Her Majesty's Government's main aim in promoting economic development in Malta is to attract new industries. The 1955 Declaration recognized that this required a joint effort towards which the Maltese Government and people should make the best possible contribution from their own resources. A very important step in Malta's economic development has already been taken by the decision to convert the Naval Dockyard to a commercial ship repair yard and to develop associated industries. The construction of a deepwater harbour, the building of an industrial estate, the re-equipment of the Island's electricity supply and other public utilities, and the development of tourism are already going ahead. Plans for other development are now under examination. It is the

9: Luke G-5 (ca. 1920-ca. 1960) 1960
EZ6 Malta EZ6

654 Governor's intention to ask the International Bank for Reconstruction and Development for advice from time to time on
• 433 current problems of the Maltese economy and on the plans for
648 Malta's economic development.

9. Private industrial development is to be assisted by the Aids to Industry legislation which the Governor intends to enact this month. This will offer substantial fiscal incentives to new industries to establish themselves in the Islands. New industries establishing themselves in Malta will also be eligible to apply for grants and loans. In administering these various incentives to industrial development the Governor will be assisted by an influential advisory body on which there will be Maltese representatives. This body will be under the chairmanship of Lord Hives, who is already familiar with Malta's problems.

Her Majesty's Government have now decided to contribute a sum of up to £29,000,000 over the next five years towards the cost of Malta's capital programme, the conversion of the dockyard to civil use and the encouragement of new industries.

642 The 1959 Constitution came into operation, as it happened,
654 on the 15th April, which is celebrated in Malta as George
648 Cross Day. It provides for the administration of the islands by the Governor with the aid of a part-official, part-nominated Executive Council with Maltese representation, an arrangement similar to that in force between 1936 and 1939. There was also enacted the Aids to Industry legislation foreshadowed in Mr Lennox-Boyd's Statement; Messrs Bailey successfully took over the Dockyard, which had been converted into a commercial undertaking with the financial help of the British Government; work was inaugurated on the construction of a new deep-water wharf in the Grand Harbour.

744 Sir Robert Laycock's term of office, while politically
73 frustrating, ended with a year of economic advance and new hopes. It also saw an immense advance in social services such as District Nursing and the care of handicapped children, orphans and victims of infantile paralysis under the vigorous